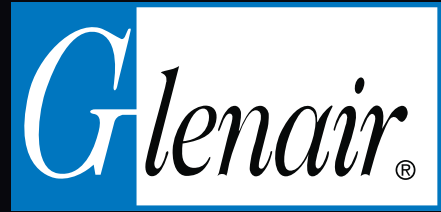
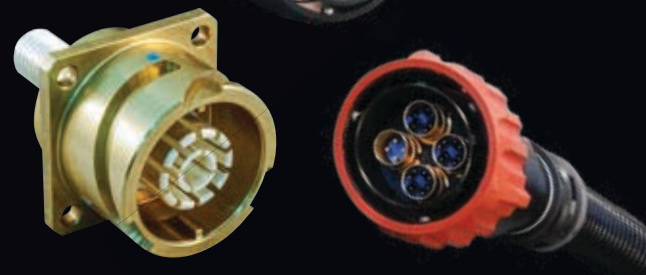


MISSION-CRITICAL
INTERCONNECT
SOLUTIONS



Super ITS™



High-Performance, Reverse-Bayonet Connectors for Harsh-Environment, High-Speed, Nuclear, Military Ground Vehicle, and Geo-Marine Applications



HIGH-PERFORMANCE
HARSH-ENVIRONMENT
REVERSE-BAYONET



Precision-machined military- and aerospace-grade reverse-bayonet connectors for high-speed, fiber optic, and harsh-environment applications



Three connector classes: Harsh-environmental, high-speed electrical / optical, and field RJ45/USB

Glenair BLQ has a long history of supplying rugged reverse-bayonet connectors designed around MIL-DTL-5015 (VG95234) insert arrangements and performance specifications. Today, this vertically-integrated interconnect design, manufacture, and test facility is focused on delivering higher-performance derivatives of these versatile power and signal connectors.

Super ITS is the Glenair BLQ master brand for the operation's high-performance family of reverse-bayonet connectors. Super ITS includes several versions of advanced environmental connectors including solutions for broad temperature tolerance, arctic application, above-deck shipboard use, and class 1E nuclear containment zone applications. Super ITS high-speed solutions include electrical as well as fiber optic designs for harsh-environment, high data rate applications. Super ITS connector designs for RJ45 and USB field applications deliver improved grounding, sealing, and a broader range of wire termination choices compared to commercial-grade solutions.

SUPER ITS™

- High-performance derivatives of Glenair BLQ's popular 5015 reverse-bayonet
- Innovative new harsh environmental, high-speed, and field RJ45 / USB designs
- Superior materials and fabrication throughout including precision-machined shells, rigid dielectric inserts, high-speed contact modules and more
- Interconnect solutions designed specifically for military defense, aerospace, and other rugged application environments

SUPER ITS: HARSH ENVIRONMENT

A



Super ITS - 921
High-Temp, High-Ampacity Power



Super ITS - MB Seacrow
Marine Bronze Power and Signal



Super ITS - IGE MB Seacrow
Marine Bronze Single-Pole Power



Super ITS - RG RadGrip
Molded Coupling Nut Grip Connectors



ITS-NG
Class 1E Containment Zone Nuclear-Grade Connectors

SUPER ITS: HIGH-SPEED, HIGH DATA-RATE

B



Super ITS - ITH Octobyte
High-Speed Quadaxial and Octaxial Shielded Contact Solutions



Super ITS - IFO B Fiber Optic
Singlemode and Multimode Optical Interconnects

SUPER ITS: RUGGEDIZED RJ45 ETHERNET AND USB

C



Super ITS - RJ45 SuperSeal
Rugged Field Cat5 Ethernet Connectors



Super ITS - USB SuperSeal
Rugged Field USB 2.0 Connectors

APPENDIX: Shared Insert Arrangements, Contacts, Tools, and Accessories

D



ADVANCED PERFORMANCE Super ITS-921 Reverse-Bayonet Rigid Insert, High-Ampacity Connectors



Product Selection Guide



SUPER ITS - 921

**CONNECTOR OVERVIEW
FEATURES AND BENEFITS
AVAILABLE OPTIONS AND PERFORMANCE RATINGS
HIGH-DENSITY LOUVERBAND CONTACT ARRANGEMENTS
TESTING SPECIFICATIONS
MATERIAL AND FINISH**

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SUPER ITS - 921

**HIGH-AMPACITY, RIGID INSERT
LOUVERBAND CONTACT REVERSE-BAYONET POWER CONNECTORS**

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SUPER ITS - 921

HIGH AMPACITY PIN AND LOUVERBAND SOCKET CONTACTS

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TOOLS AND WIRE SEALING GROMMETS

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WIRING INSTRUCTIONS

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BACKSHELLS

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SUPER ITS - 921

METAL PROTECTIVE COVERS, CONTACTS, AND OTHER ACCESSORIES

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SUPER ITS: HARSH ENVIRONMENT

A

921TM
SERIES

SUPER ITS

Glenair[®]



HIGHER POWER, SMALLER SIZE

Super ITS - 921

Ultra high-performance reverse-bayonet power connectors

Reverse-bayonet derivatives of M5015 / VG95234 threaded connectors have long been preferred for their rapid mating and rugged resistance to vibration and shock in harsh-environment applications such as military vehicles and missile batteries. Now Glenair introduces an ultra high-performance version of the reverse-bayonet M5015 / VG95234 power connector called the Super ITS - 921. This series is designed for high-ampacity applications where low insertion force LouverBand type contacts, mechanical contact retention, broad temperature tolerance, reduced size, and superior connector and wire sealing is required.

Super ITS - 921 is reduced-size, environmentally-sealed (IP69K) connector, incorporating familiar MIL-5015 contact insert arrangements. Unlike conventional 5015-type connectors designed for industrial and rail applications, the Super ITS - 921 offers uncompromised electrical, mechanical, and environmental performance features such as precision-machined aluminum alloy or stainless steel shells with 2000 mating cycle lifespan, rigid thermoset two-piece insulators, and machined, highly conductive copper alloy LouverBand contacts. Designed for extreme harsh environments such as are found in military defense applications, the Super ITS - 921 delivers contact and wire support from #16 to 2/0 and 1 mmq - 70 mmq respectively (contact genders are also reversible between plugs and receptacles). With improved working voltage up to 350 amps, and a max working voltage of 2450 VCC / 1750 VCA, the Super ITS - 921 represents the ultimate in mission-critical power interconnection.

- **Super ITS-921 is a high-ampacity reverse-bayonet connector with reduced size compared to standard M5015**
- **Low insertion force, high-ampacity front-release LouverBand contacts**
- **Precision-machined thermoset insulator with internal contact retention clips**
- **Precision-machined shells with polarization keys to prevent mis-mating**
- **Interfacial and individual wire sealing for IP67 performance**
- **Broad operating temperature range: -65° to +180°C**
- **2000-cycle reduced insertion-force mating**

SUPER ITS: HARSH ENVIRONMENT

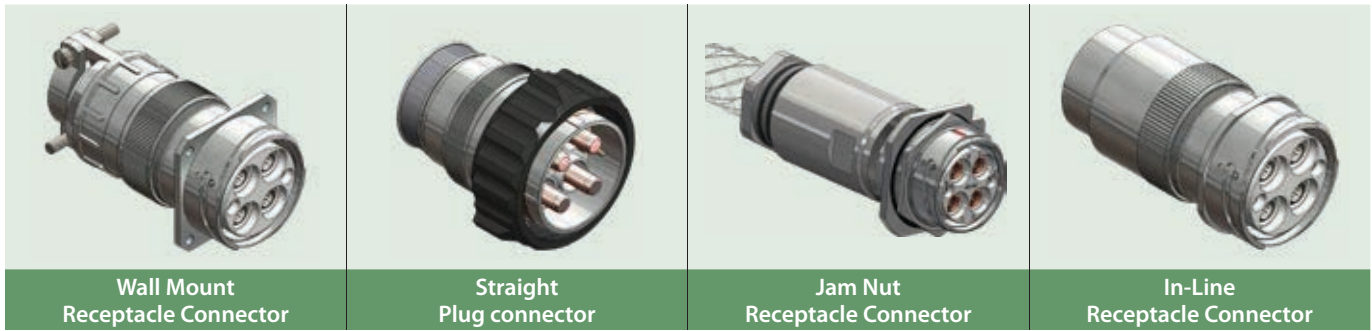




ADVANCED PERFORMANCE
**Super ITS-921 Reverse-Bayonet
 Rigid Insert, High-Ampacity Connectors**
 Series Overview



SUPER ITS - 921 CONNECTOR SELECTION GUIDE



LOUVERBAND CONTACT PAIR CURRENT RATING AND RESISTANCE



Contact Size	Wire Size	Current Rating at 20° C (Amperes)	Current Rating at 80° C (Amperes)	Max. Contact Resistance (milliohms)
16	16	25	15	6.0
	20	10	9	
12	12	50	28	3.0
	14	40	20	
8	8	90	70	1.0
	10	70	55	
4	4	160	130	0.5
	6	120	105	
1/0	1/0	300	250	0.3
	2/0	330	280	

PERFORMANCE COMPARISON: STANDARD ITS VS. SUPER ITS - 921



Performance Feature	ITS	Super ITS - 921
Mating Cycles	500	2000
Mating Face Sealing	Front O-Ring	Sealing O-Ring
Polarization Key	No	Yes
Power Contacts	Copper Alloy	LouverBand Higher Ampacity. L.i.f.
Insert	Rubber	High Temp/Rigid Insert + Internal Clip
Grommet	Rubber	Individual Contact Seal (Silicon)
Hard Anodization	No	Yes
Temperature Range	-55° – +125°C	-65° – +180°C
Working Voltage	MIL-C-5015	MIL-C-5015. EN50124. VDE 0110-1

SUPER ITS: HARSH ENVIRONMENT

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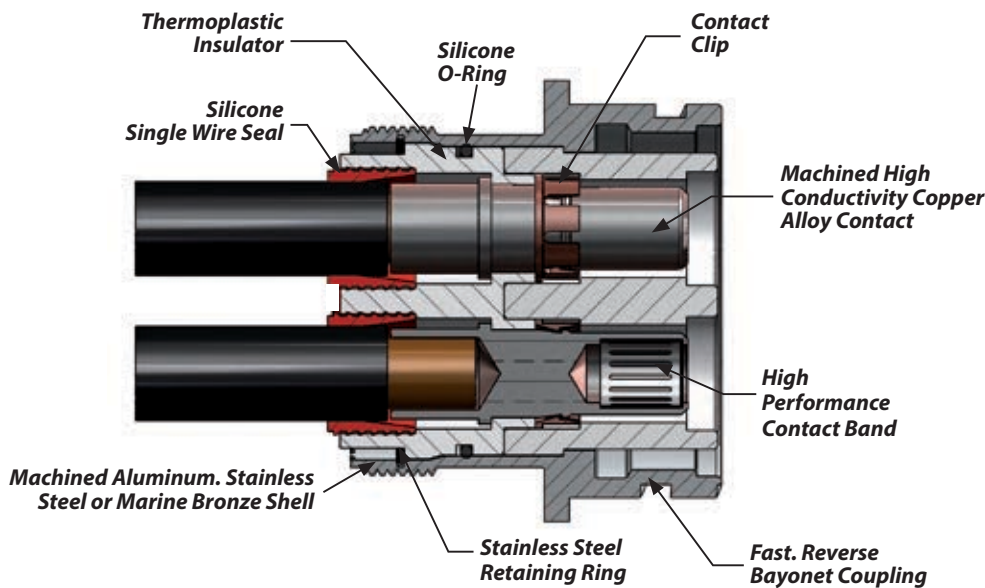
ADVANCED PERFORMANCE Super ITS-921 Reverse-Bayonet Rigid Insert, High-Ampacity Connectors

Features and Benefits

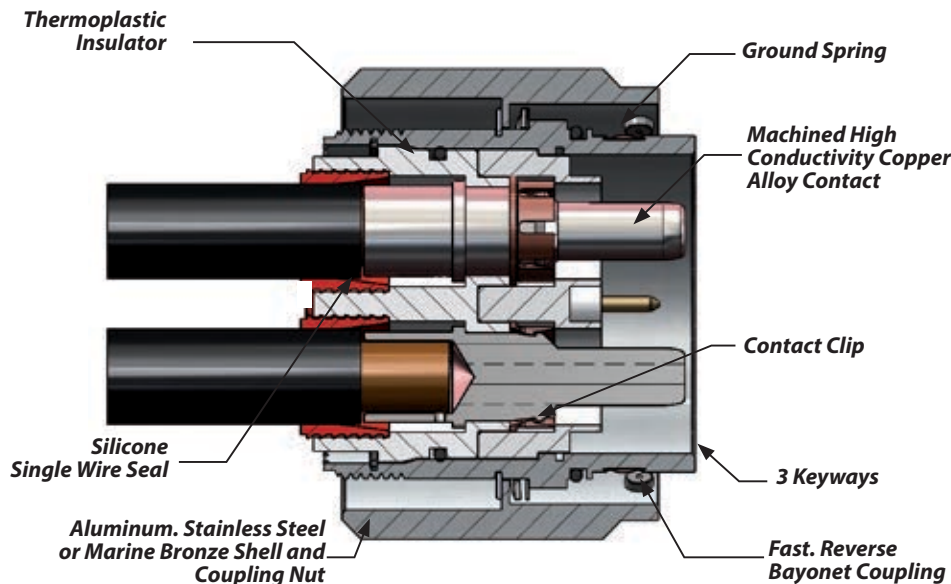


The Super ITS - 921 Connector Series is a high ampacity, harsh environment connector capable of meeting the demanding requirements of power applications utilizing the latest generation of high-temperature power cables. Compared to legacy 5015 solutions, Super ITS - 921 offers better durability, better wire and connector interface sealing, integrated crimp contact retention clips, thermoplastic insulators, precision-machined shells, and more.

RECEPTACLE



PLUG



- Fast, easy connector mating with reverse-bayonet coupling
- 3 polarizing keys
- Higher-density insert arrangements for reduced size and weight
- LouverBand Size 0, 4 and 8 socket contacts for high ampacity and longer life
- Crimp, front-release high-conductivity copper contacts
- Individual wire seals
- -65° C to +180° C operating temperature range
- Size 8, 4 and 1/0 power contact sizes
- Size 16 and 12 signal contact size
- Precision-machined plug bodies and receptacle shells

SUPER ITS: HARSH ENVIRONMENT

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ADVANCED PERFORMANCE Super ITS-921 Reverse-Bayonet Rigid Insert, High-Ampacity Connectors



Available Options and Performance Ratings

Contact Arrangements Table								
Contact Arrangement	Qty	Service Rating	Contact Size and Q.ty					
			#16	#12	#8	#4	#1/0	#2/0
24-GL2	2	B			2			
24-22	4	E			4			
28-GL5	5	E			5			
28-GL2	2	B				2		
28-GL3	6	E	3		3			
32-2	5	B	2			3		
32-GL2	2	B					2	
32-GL12	1	B						1
32-17	4	B				4		
40-A4	6	E		2			4	
40-GL3	3	B					3	
40-GL31	4	E				1	3	
40-GL22	2	B						2
40-GL7	2	E		2		5		
40-GL33	6	E			3		3	

Rated Insulation Voltage Vac or Vdc (according to EN 50124-1)		
OV1-PD1 (*)	OV2-PD1 (*)	OV3-PD1 (*)
1200V<V<1600V	<1200V	<900V
OV: Overvoltage Category PD: Pollution Degree		

*: for a different value of OV and PD please ask to the factory

Wire Insulation Diameters				
Contact Size	Wire Size (AWG)	Max. Contact Resistance (mOhm)	Overall Cable Diameter Dimensions	
			Ø min.	Ø max.
16	16	12	1 (0.04)	4 (0.16)
	20	6		
12	12	3	2 (0.08)	5 (0.20)
8	8	1	4 (0.16)	8 (0.31)
4	4	0.5	7 (0.28)	12.7 (0.50)
1/0	1/0	0.3	10 (0.39)	15.8 (0.62)
	2/0	0.3	12 (0.47)	17.8 (0.70)

Materials and Finishes		
Components	Material	Finish
Contact. Size #1/0, #4 and #8	Pin contact and socket contact body: high conductive copper alloy Socket contact spring: beryllium copper	Silver plating
Contact. Size #12, #16	Pin contact and socket contact body: copper alloy Socket contact spring: stainless steel	Code 1: silver plating Code 2: gold plating
Aluminum Shells, Coupling Nuts	Aluminum alloy	See Ordering Information
Stainless Steel Shells, Coupling Nuts	Stainless steel	Passivated
Insulator	Polytetrafluoroethylene	None
Single Wire Seals	Silicone rubber	None
EMI Spring	Beryllium copper	Silver-plated
Clinch Nut	Stainless steel	Passivated

Service Rating (according to MIL-DTL-5015)			
Class	Operating voltage Vdc	Operating voltage Vac RMS	Test voltage Vac RMS
E	1750 V	1250 V	3500 V
B	2450 V	1750 V	4500 V

Current Rating			
Contact Size	Wire Size	Rated current at +20°C (Amperes)	Rated current at +80°C (Amperes)
16	16	25	15
	20	10	9
12	12	50	28
	14	40	20
8	8	90	70
	10	70	55
4	4	160	130
	6	120	105
1/0	1/0	300	250
2/0	2/0	330	280

SUPER ITS: HARSH ENVIRONMENT

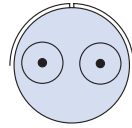
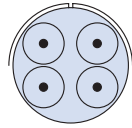
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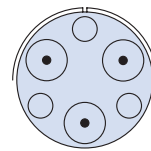
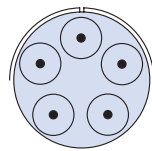
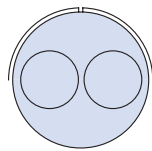
ADVANCED PERFORMANCE
**Super ITS-921 Reverse-Bayonet
 Rigid Insert, High-Ampacity Connectors**



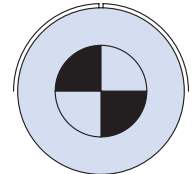
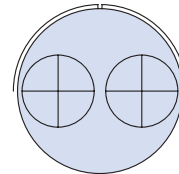
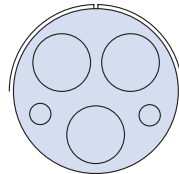
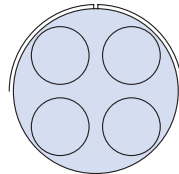
High-Density Contact Arrangements, Front View



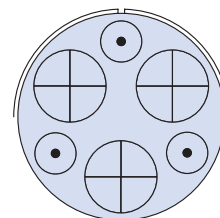
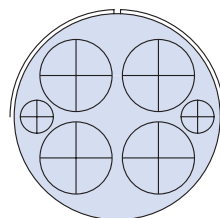
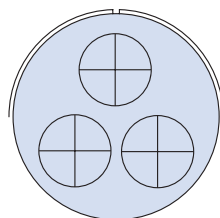
Arrangements	24-22	24-GL2
Contact Size	4 #8	2 #8
Service rating	E	B



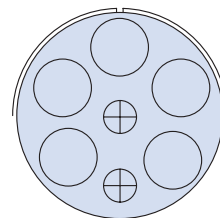
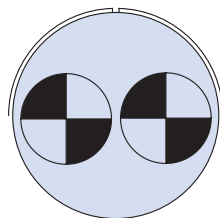
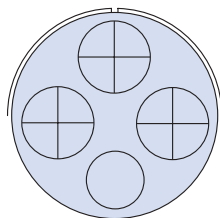
Arrangements	28-GL2	28-GL5	28-GL3
Contact Size	2 #4	5 #8	3 #8, 3 #16
Service rating	B	E	E



Arrangements	32-17	32-2	32-GL2	32-GL12
Contact Size	4 #4	3 #4, 2 #16	2 #1/0	1 #2/0
Service rating	B	B	B	B



Arrangements	40-GL3	40-A4	40-GL33
Contact Size	3 #1/0	4 #1/0, 2 #12	3 #1/0, 3 #8
Service rating	B	E	E



Arrangements	40-GL31	40-GL22	40-GL7
Contact Size	3 #1/0, 1 #4	2 #2/0	5 #4, 2 #12
Service rating	E	B	E

SUPER ITS: HARSH ENVIRONMENT





ADVANCED PERFORMANCE
Super ITS-921 Reverse-Bayonet
Rigid Insert, High-Ampacity Connectors
Testing Specifications



SUPER ITS: HARSH ENVIRONMENT

Description	Requirement	Procedure																					
Contact Resistance	<p>Low level: the low signal level contact resistance of mated contact pairs shall be measured in accordance with VG95234-1 (Para. 5.10.1).</p> <p style="text-align: center;">CONTACT RESISTANCE</p> <table border="1"> <thead> <tr> <th>Contact Size</th> <th>Contact Resistance (mΩ Max.)</th> </tr> </thead> <tbody> <tr><td>16</td><td>6</td></tr> <tr><td>12</td><td>3</td></tr> <tr><td>8</td><td>1</td></tr> <tr><td>4</td><td>0.5</td></tr> <tr><td>1/0</td><td>0.2</td></tr> </tbody> </table>	Contact Size	Contact Resistance (mΩ Max.)	16	6	12	3	8	1	4	0.5	1/0	0.2	VG95234-1									
Contact Size	Contact Resistance (mΩ Max.)																						
16	6																						
12	3																						
8	1																						
4	0.5																						
1/0	0.2																						
Contact Retention	<p style="text-align: center;">CONTACT RETENTION</p> <table border="1"> <thead> <tr> <th>Contact Size</th> <th>Min. Pounds</th> </tr> </thead> <tbody> <tr><td>16</td><td>25</td></tr> <tr><td>12</td><td>30</td></tr> <tr><td>8</td><td>50</td></tr> <tr><td>4</td><td>60</td></tr> <tr><td>1/0</td><td>75</td></tr> </tbody> </table>	Contact Size	Min. Pounds	16	25	12	30	8	50	4	60	1/0	75	EIA-364-29 MethodB									
Contact Size	Min. Pounds																						
16	25																						
12	30																						
8	50																						
4	60																						
1/0	75																						
Current Rating	<p style="text-align: center;">CURRENT RATING</p> <table border="1"> <thead> <tr> <th>Contact Size</th> <th>Rated Current (20°C)</th> <th>Rated Current (80°C)</th> </tr> </thead> <tbody> <tr><td>16</td><td>25</td><td>15</td></tr> <tr><td>12</td><td>50</td><td>28</td></tr> <tr><td>8</td><td>90</td><td>70</td></tr> <tr><td>4</td><td>160</td><td>130</td></tr> <tr><td>1/0</td><td>300</td><td>250</td></tr> <tr><td>2/0</td><td>330</td><td>280</td></tr> </tbody> </table>	Contact Size	Rated Current (20°C)	Rated Current (80°C)	16	25	15	12	50	28	8	90	70	4	160	130	1/0	300	250	2/0	330	280	EIA-364-70
Contact Size	Rated Current (20°C)	Rated Current (80°C)																					
16	25	15																					
12	50	28																					
8	90	70																					
4	160	130																					
1/0	300	250																					
2/0	330	280																					
Dielectric Withstanding Voltage at Sea Level	<p>Service Rating E No breakdown or flashover at 4000 Vac RMS - 50 Hz 2 mA max. leakage current</p> <p>Service Rating B No breakdown or flashover at 4500 Vac RMS - 50 Hz 2 mA max. leakage current</p>	MIL-DTL-5015H																					

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ADVANCED PERFORMANCE
**Super ITS-921 Reverse-Bayonet
 Rigid Insert, High-Ampacity Connectors**
 Testing Specifications



Description	Requirement	Procedure
Dynamic Corrosion	The connectors shall be subjected at 50 cycles of mating/unmating then at XXX hours of salt spray (see platings limit for the hour of test) and then another 50 cycles of mating/unmating shall be performed. Connectors shall show no exposure of the base metal. Connectors shall meet DWV, contact resistance, shell to shell resistance.	MIL-DTL-5015H
High Impact Shock	No discontinuity of greater than 1 microseconds, no cracking, breaking or loosening of parts, plug shall not become disengaged from receptacle. Connectors shall meet electrical requirements after vibration test. 3 shocks for each direction; 50G, 11ms (VG95234 and SAE AS 50151C)	MIL-DTL-38999L
Ingress Protection, Mated	IPX8 rating IPX9K rating.	IEC-60529 DIN 40050-9
Insert Retention	Unmated connector. 100 ± 5 pounds per square inch with a 25 pounds minimum force.	MIL-DTL-38999L
Insulation Resistance at Ambient Temperature	The measure of the insulation resistance shall be done with 500 Vdc. Insulation resistance shall be greater than 5G ohm	MIL-DTL-5015H
Insulation Resistance at Elevated Temperature	The measure of the insulation resistance shall be done after 30 min at 200°C with 500 Vdc. Insulation resistance shall be greater than 1000 MΩ.	EIA-364-21
Mechanical Durability, at Ambient Temperature	The connectors shall be subjected at 2000 cycles of mating/unmating.	MIL-DTL-5015H

SUPER ITS: HARSH ENVIRONMENT





ADVANCED PERFORMANCE
**Super ITS-921 Reverse-Bayonet
 Rigid Insert, High-Ampacity Connectors**
 Testing Specifications



SUPER ITS: HARSH ENVIRONMENT

Description	Requirement	Procedure
Moisture Resistance	In accordance with EIA-364-31 method IV. The insulation resistance shall be not less than 100 MΩ.	MIL-DTL-5015H
Operating Temperature	See plating operating temperature.	
Shell Conductivity	The overall DC resistance shall be $R \leq 5\text{m}\Omega$	MIL-DTL-5015H
Thermal Shock	The connectors shall be subjected at 5 cycles of thermal shock (30min + 30 min). For the temperature see the platings limit. Following thermal shock, connector shall meet contact resistance, DWV, insulation resistance and shell to shell resistance requirement.	MIL-DTL-5015H
Vibration, Sine	Mated connectors shall not be damaged and there shall be no loosening of parts due to vibration. Counterpart connectors shall be retained in full engagement. The interruption of electrical continuity shall be not longer than 10 microseconds.	MIL-DTL-5015H
Water Pressure	The connectors shall be submerged in water at 1 bar of pressure for 12h. The connectors shall show no evidence of entrance of water.	VG95234

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ADVANCED PERFORMANCE
Super ITS-921 Reverse-Bayonet
Rigid Insert, High-Ampacity Connectors
Connector Specifications



Description	Requirement	Procedure																								
EMI Shielding Effectiveness		VG95234-1																								
Mating and Unmating Torque	<p>The mating and unmating torque of the connectors shall be measured. The bayonet slots shall be greased.</p> <table border="1"> <thead> <tr> <th rowspan="2">Shell Size</th> <th colspan="2">Admissible Torque Values</th> </tr> <tr> <th>Close and Open Nm max.</th> <th>Open Nm min.</th> </tr> </thead> <tbody> <tr> <td>24</td> <td rowspan="4">14</td> <td>0.8</td> </tr> <tr> <td>28</td> <td>0.9</td> </tr> <tr> <td>32</td> <td>1</td> </tr> <tr> <td>40</td> <td>1.5</td> </tr> </tbody> </table>	Shell Size	Admissible Torque Values		Close and Open Nm max.	Open Nm min.	24	14	0.8	28	0.9	32	1	40	1.5											
Shell Size	Admissible Torque Values																									
	Close and Open Nm max.	Open Nm min.																								
24	14	0.8																								
28		0.9																								
32		1																								
40		1.5																								
Socket Contacts, Engagement and Separation Forces	<p>Socket contacts shall be tested in accordance with EIA-364-037. Contacts are permitted to be tested installed in the connectors.</p> <table border="1"> <thead> <tr> <th>Contact Mating End Size</th> <th>Min Separation Force (ounces) min Diameter SAE-AS31971 pin</th> <th>Max Average Engagement Force (ounces) Max Diameter SAE-AS31971 pin</th> <th>Max Average Engagement Force (ounces) Max Diameter SAE-AS31971 pin</th> </tr> </thead> <tbody> <tr> <td>16</td> <td>2</td> <td>33</td> <td>48</td> </tr> <tr> <td>12</td> <td>3</td> <td>56</td> <td>80</td> </tr> <tr> <td>8</td> <td>5</td> <td>N/A</td> <td>160</td> </tr> <tr> <td>4</td> <td>10</td> <td>N/A</td> <td>240</td> </tr> <tr> <td>0</td> <td>15</td> <td>N/A</td> <td>320</td> </tr> </tbody> </table>	Contact Mating End Size	Min Separation Force (ounces) min Diameter SAE-AS31971 pin	Max Average Engagement Force (ounces) Max Diameter SAE-AS31971 pin	Max Average Engagement Force (ounces) Max Diameter SAE-AS31971 pin	16	2	33	48	12	3	56	80	8	5	N/A	160	4	10	N/A	240	0	15	N/A	320	MIL-DTL-5015H
Contact Mating End Size	Min Separation Force (ounces) min Diameter SAE-AS31971 pin	Max Average Engagement Force (ounces) Max Diameter SAE-AS31971 pin	Max Average Engagement Force (ounces) Max Diameter SAE-AS31971 pin																							
16	2	33	48																							
12	3	56	80																							
8	5	N/A	160																							
4	10	N/A	240																							
0	15	N/A	320																							

SUPER ITS: HARSH ENVIRONMENT





ADVANCED PERFORMANCE
**Super ITS-921 Reverse-Bayonet
 Rigid Insert, High-Ampacity Connectors**
 Material and Finish



Shell Material and Plating							
Code	Material	Finish	Electrical conductivity	Hrs. Salt spary	Operating T range	RoHS Compliant	Ground Spring
F6	Aluminum	Black Electrostatic Paint	Non Conductive	500	-55°C to +125°C	Yes	No
G3	Aluminum	Cadmium. Olive drab	Conductive	500	-55°C to +125°C	No	Yes
MT	Aluminum	Nickel-PTFE	Conductive	1000	-65°C to +175°C	Yes	Yes
M	Aluminum	Electroless Nickel	Conductive	48	-65°C to +200°C	Yes	Yes
G2	Aluminum	Anodize. Hardcoat	Non Conductive	336	-65°C to +200°C	Yes	No
Z1	Stainless Steel	Passivate	Conductive	1000	-65°C to +200°C	Yes	Yes
AB	Marine Bronze	Unplated	Conductive	1000	-65°C to +200°C	Yes	Yes

Contact Material and Plating						
Code	Type	Material	Plating	Contact Size	RoHS Compliant	Note
P1	Pin	Copper Alloy	Silver	16, 12, 8, 4, 1/0	Yes	Standard
S1	Socket		Silver		Yes	
P2	Pin		16, 12	Gold	Yes	Optional
S2	Socket			Gold	Yes	

SUPER ITS: HARSH ENVIRONMENT

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ADVANCED PERFORMANCE

Super ITS-921 Reverse-Bayonet Rigid Insert, High-Ampacity Connectors



How to Order



Super ITS - 921 Plug and Receptacle Connectors for High Current Applications

Super ITS™ - 921 extreme environment receptacle connectors are intended for high current applications where size 8 AWG to size 2/0 AWG wires are used. Receptacle connectors feature high ampacity LouverBand contacts. Quick-mating bayonet coupling type. EMI protected with ground spring and integral backshell mating interface teeth. Standard contacts are silver plated high conductivity copper alloy. or choose gold-plated signal (Size 16 and 12) contacts for improved corrosion protection in space or petrochemical environments. Silicone O-rings and wire seal provide watertight sealing. Contacts are packaged with connector.

Specifications			
Current Rating			
Contact Size	Wire Size	Rated current at +20°C (Amperes)	Rated current at +80°C (Amperes)
16	16	25	15
	20	10	9
12	12	50	28
	14	40	20
8	8	90	70
	10	70	55
4	4	160	130
	6	120	105
1/0	1/0	300	250
2/0	2/0	330	280

Contact Resistance	
Contact Size	Resistance (mΩ Max.)
16	6
12	3
8	1
4	0.5
1/0	0.2

How To Order						
Sample Part Number:	921	-002	-32-17	S1	MT	N
Series	921 = Super ITS					
Shell Style	See shell style table					
Shell Size - Insert Arrangement	See insert arrangement; Page A-76					
Contact Type and Plating	P1 = pin contacts, silver plated S1 = socket contacts, silver plated P2 = pin contacts, gold plated S2 = socket contacts, gold plated P0 = pin connector, without contacts S0 = socket connector, without contacts					
Material and Finish	F6 = aluminum, black electrostatic paint G3 = aluminum, cadmium, olive drab MT = aluminum, nickel-PTFE M = aluminum, electroless nickel G2 = aluminum, anodize, hardcoat Z1 = stainless steel, passivate AB = marine bronze, unplated					
Polarization	N = position 1 2 = position 2 3 = position 3 4 = position 4					

Shell Style	
Series	Description
002	Front or wall mount receptacle with through holes
003	Rear panel mount, wall mount receptacle with clinch nuts
006	Plug with arctic coupling nut
005	Plug with RadGrip rubber coated coupling nut
007	Rear panel mount, jam-nut mount receptacle
001	Inline receptacle

SUPER ITS: HARSH ENVIRONMENT

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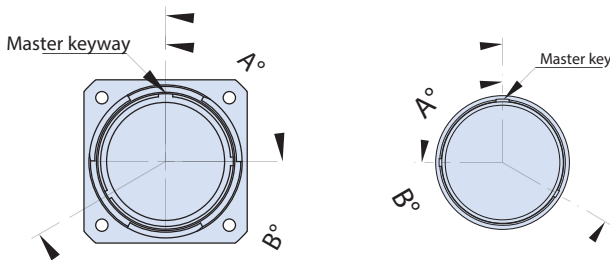
ADVANCED PERFORMANCE Super ITS-921 Reverse-Bayonet Rigid Insert, High-Ampacity Connectors



How to Order

Shell Material and Finish Supplemental Information							
Code	Material	Finish	Electrical conductivity	Hrs. Salt spray	Operating T range	RoHS Compliant	Ground Spring
F6	Aluminum	Black Electrostatic Paint	Non Conductive	500	-55°C to +125°C	Yes	No
G3	Aluminum	Cadmium. Olive drab	Conductive	500	-55°C to +125°C	No	Yes
MT	Aluminum	Nickel-PTFE	Conductive	1000	-65°C to +175°C	Yes	Yes
M	Aluminum	Electroless Nickel	Conductive	48	-65°C to +200°C	Yes	Yes
G2	Aluminum	Anodize. Hardcoat	Non Conductive	336	-65°C to +200°C	Yes	No
Z1	Stainless Steel	Passivate	Conductive	1000	-65°C to +200°C	Yes	Yes
AB	Marine Bronze	Unplated	Conductive	1000	-65°C to +200°C	Yes	Yes

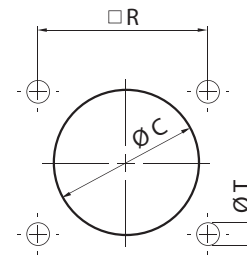
POLARIZATION



Receptacle Polarization		
Position	A°	B°
1	90	240
2	135	225
3	150	210
4	120	270

Plug Polarization		
Position	A°	B°
1	90	240
2	135	225
3	150	210
4	120	270

PANEL CUTOUT DIMENSIONS



Shell Size	Panel Cutout					
	Front Panel Mounting			Rear Panel Mounting		
	øC	R	øT	øC	R	øT
24	36.0 (1.42)	34.9 (1.37)	3.9 (0.15)	41.8 (1.65)	34.9 (1.37)	4.5 (0.18)
28	42.0 (1.65)	39.7 (1.56)	3.9 (0.15)	47.6 (1.87)	39.7 (1.56)	5.5 (0.22)
32	48.5 (1.91)	44.5 (1.75)	4.5 (0.18)	54.3 (2.14)	44.5 (1.75)	5.5 (0.22)
40	61.0 (2.40)	55.5 (2.19)	4.5 (0.18)	66.4 (2.61)	55.5 (2.19)	5.5 (0.22)

SUPER ITS: HARSH ENVIRONMENT

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ADVANCED PERFORMANCE Super ITS-921 Reverse-Bayonet Rigid Insert, High-Ampacity Connectors



How to Order

921-002: FRONT OR REAR PANEL MOUNT, WALL MOUNT RECEPTACLE WITH THROUGH HOLES



921-002 Front or rear panel mount, wall mount receptacles provide EMI protection through the use of a ground spring. Accessory threads for backshells with integral teeth for high vibration environments. Optional gold-plated signal (Size 16 and 12) contacts available for improved corrosion protection in space or petrochemical environments. Silicone O-rings and wire seal provide watertight sealing. Contacts are packaged with connector.

Sample Part Number

921	-002	-40-A4	S1	MT	N
Series	Shell Style	Shell Size/ Insert Arrangement	Contact Type and Plating	Material and Finish	Polarization

921-003: REAR PANEL MOUNT, WALL MOUNT RECEPTACLE WITH CLINCH NUTS



921-003 Rear panel mount, wall mount receptacles feature EMI protection through the use of a ground spring. Accessory threads for backshells with integral teeth for high vibration environments. Clinch nuts eliminate the need for tapping mounting holes or nut. Optional gold-plated signal (Size 16 and 12) contacts available for improved corrosion protection in space or petrochemical environments. Silicone O-rings and wire seal provide watertight sealing. Contacts are included.

Sample Part Number

921	-003	-40-A4	S1	MT	N
Series	Shell Style	Shell Size/ Insert Arrangement	Contact Type and Plating	Material and Finish	Polarization

921-006: PLUG CONNECTOR WITH ARCTIC COUPLING NUT WITH DEEP GROOVES FOR EASE OF COUPLING WITH GLOVED HANDS



921-006 plug connectors feature high ampacity pin contacts and rugged water resistant construction for the most demanding environments. EMI protected with ground spring. Accessory threads for backshells with integral teeth for high vibration environments. Optional gold-plated signal (Size 16 and 12) contacts available for improved corrosion protection in space or petrochemical environments. Silicone O-rings and wire seal provide watertight sealing. Contacts are included

Sample Part Number

921	-006	-40-A4	S1	MT	N
Series	Shell Style	Shell Size/ Insert Arrangement	Contact Type and Plating	Material and Finish	Polarization

Part Number Options
Shell Size / Insert Arrangement
See contact arrangements; page B-1
Contact Type
P1 = pin contacts, silver plated S1 = socket contacts, silver plated P2 = pin contacts, gold plated S2 = socket contacts, gold plated P0 = pin connector, without contacts S0 = socket connector, without contacts
Material / Finish
F6 = aluminum, black electrostatic paint G3 = aluminum, cadmium. olive drab MT = aluminum, nickel-PTFE M = aluminum, electroless nickel G2 = aluminum, anodize, hardcoat Z1 = stainless steel, passivate AB = marine bronze, unplated
Polarization
N = Position 1 2 = Position 2 3 = Position 3 4 = Position 4

SUPER ITS: HARSH ENVIRONMENT

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ADVANCED PERFORMANCE Super ITS-921 Reverse-Bayonet Rigid Insert, High-Ampacity Connectors



How to Order

921-005: PLUG WITH RADGRIP RUBBER COATED COUPLING NUT



921-005 plug connectors have a rubber coated quick mating reverse bayonet coupling for easy coupling and decoupling of connector in environments where gloves are readily required. EMI protected with ground spring. Accessory threads for backshells with integral teeth for high vibration environments. Optional gold-plated signal (Size 16 and 12) contacts available for improved corrosion protection in space or petrochemical environments. Silicone O-rings and wire seal provide watertight sealing. Contacts are packaged with connector.

Sample Part Number

921	-005	-40-A4	S1	MT	N
Series	Shell Style	Shell Size/ Insert Arrangement	Contact Type and Plating	Material and Finish	Polarization

921-007: REAR PANEL MOUNT. JAM-NUT RECEPTACLE



921-007 Rear panel mount, jam-nut connectors accommodate panel thicknesses up to 300 mm (7.62 inches). These connectors feature high ampacity LouverBand contacts and quick mating bayonet coupling, EMI protected with ground spring. Accessory threads for backshells with integral teeth for high vibration environments. Optional gold-plated signal (Size 16 and 12) contacts available for improved corrosion protection in space or petrochemical environments. Silicone O-rings and wire seal provide watertight sealing. Contacts are packaged with connector.

Sample Part Number

921	-007	-40-A4	S1	MT	N
Series	Shell Style	Shell Size/ Insert Arrangement	Contact Type and Plating	Material and Finish	Polarization

921-001 IN -LINE RECEPTACLE



921-001 These connectors, often called "in-line" or "free-hanging" receptacles, are installed on cables for cord-to-cord applications. These connectors feature high ampacity LouverBand contacts and a quick mating bayonet coupling, EMI protected with ground spring. Accessory threads for backshells with integral teeth for high vibration environments. Optional gold-plated signal (Size 16 and 12) contacts available for improved corrosion protection in space or petrochemical environments. Silicone O-rings and wire seal for watertight sealing. Contacts are packaged with connector.

Sample Part Number

921	-001	-40-A4	S1	MT	N
Series	Shell Style	Shell Size/ Insert Arrangement	Contact Type and Plating	Material and Finish	Polarization

Part Number Options
Shell Size / Insert Arrangement
See contact arrangements; page B-1
Contact Type
P1 = pin contacts, silver plated S1 = socket contacts, silver plated P2 = pin contacts, gold plated S2 = socket contacts, gold plated P0 = pin connector, without contacts S0 = socket connector, without contacts
Material / Finish
F6 = aluminum, black electrostatic paint G3 = aluminum, cadmium. olive drab MT = aluminum, nickel-PTFE M = aluminum, electroless nickel G2 = aluminum, anodize, hardcoat Z1 = stainless steel, passivate AB = marine bronze, unplated
Polarization
N = Position 1 2 = Position 2 3 = Position 3 4 = Position 4

SUPER ITS: HARSH ENVIRONMENT

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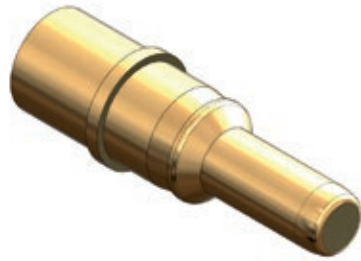


ADVANCED PERFORMANCE

Super ITS-921 Reverse-Bayonet Rigid Insert, High-Ampacity Connectors



Pin Crimp Contacts



Super ITS - 921 Pin Crimp Contacts

Series 921 Super ITS™ contacts for size #16 through Size #2/0 wire. Copper alloy with silver or gold plating. Terminate to wire with standard crimp tools. Contacts are snap-in, rear-release. Use in Series 921 Super ITS™ connectors.

Pin contact with silver plating. For plating thickness, please consult *materials and finishes table* on the How-to-Order pages. Highly conductive silver plating is ideal for high current applications.

Pin contact with gold plating for improved protection from corrosive environments. For plating thickness, please consult *materials and finishes table* on the How-to-Order pages.

Pin Crimp Contacts Table			
Contact Size	Wire Size	Finish	Pin Contact Part Number
16	16, 20	Silver	921-16-PCG10
		Gold	921-16-PCG117
12	12, 14	Silver	921-12-PCG10
		Gold	921-12-PCG117
8	8	Silver	921-8-PCG10
	10		921-8-10-PCG10
4	4	Silver	921-4-PCG10
	6		921-4-6-PCG10
1/0	1/0	Silver	921-0-PCG10
	2/0	Silver	921-0-2-PCG10

Pin Contact Current Ratings and Resistance				
Contact Size	Wire Size	Current Rating at 20° C (Amperes)	Current Rating at 80° C (Amperes)	Max. Contact Resistance (milliohms)
16	16	25	15	6.0
	20	10	9	
12	12	50	28	3.0
	14	40	20	
8	8	90	70	1.0
	10	70	55	
4	4	160	130	0.5
	6	120	105	
1/0	1/0	300	250	0.3
	2/0	330	280	

SUPER ITS: HARSH ENVIRONMENT





ADVANCED PERFORMANCE
**Super ITS-921 Reverse-Bayonet
 Rigid Insert, High-Ampacity Connectors**
 LouverBand Socket Crimp Contacts



Super ITS - 921 LouverBand Socket Crimp Contacts

Series 921 Super ITS™ contacts for size #16 through Size #2/0 wire. Copper alloy with silver or gold plating. Terminate to wire with standard crimp tools. Contacts are snap-in, rear-release. Use in Series 921 Super ITS™ connectors.

Socket contact with silver plating. For plating thickness, please consult **materials and finishes table** on the How-to-Order pages. Highly conductive silver plating is ideal for high current applications.

Socket contact with gold plating for improved protection from corrosive environments. For plating thickness, please consult **materials and finishes table** on the How-to-Order pages.

Socket Crimp Contacts Table				
Contact Size	Wire Size	Finish	Socket Contact Part Number	Contact Type
16	16, 20	Silver	921-16-SC-G10	Spring Clip
		Gold	921-16-SC-G117	
12	12, 14	Silver	921-12-SC-G10	Spring Clip
		Gold	921-12-SC-G117	
8	8	Silver	921-8-SC-LBG10	Louver Band
	10		921-8-10-SC-LBG10	
4	4	Silver	921-4-SC-LBG10	Louver Band
	6		921-4-6-SC-LBG10	
1/0	1/0	Silver	921-0-SC-LBG10	Louver Band
	2/0	Silver	921-0-2-SC-LBG10	Louver Band

socket Contact Current Ratings and Resistance				
Contact Size	Wire Size	Current Rating at 20° C (Amperes)	Current Rating at 80° C (Amperes)	Max. Contact Resistance (milliohms)
16	16	25	15	6.0
	20	10	9	
12	12	50	28	3.0
	14	40	20	
8	8	90	70	1.0
	10	70	55	
4	4	160	130	0.5
	6	120	105	
1/0	1/0	300	250	0.3
	2/0	330	280	0.3

SUPER ITS: HARSH ENVIRONMENT

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ADVANCED PERFORMANCE
**Super ITS-921 Reverse-Bayonet
 Rigid Insert, High-Ampacity Connectors**
 Contact Tools



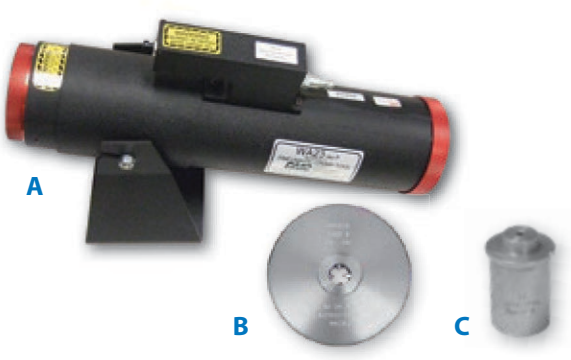
HAND CRIMP TOOL AND POSITIONER FOR #12 AND #16 CONTACTS

Fig.	Description	Part Number	Daniels Part Number
A	Crimp tool for use with size #16 and #12 Series 921 Super ITS™ pin and socket contacts.	-	VM8
B	Positioner for use with size #12 and #16 contacts.	M22520/1-05	UH2-5



HYDRAULIC AND PNEUMATIC CRIMP TOOLS

		Contact Crimp Tool				
Contact Size	Wire Size	Pneumatic Crimp Tool			Hydraulic Crimp Tool	
		Pneumatic Tool	Die	Locator	Hydraulic Tool	Die
8	10	M.112000	M.112001	M.112320	M.112004	M.112005
8	8	M.112000	M.112001	M.112320	M.112004	M.112005
4	4	M.112000	M.112002	M.112321	M.112004	M.112006
4	6	M.112000	M.112001	M.112311	M.112004	M.112005
1/0	1/0	M.112000	M.112003	M.112322	M.112004	M.112010
1/0	2/0	-	-	-	M.112004	M.112021
Figure		A	B	C	D	E



SUPER ITS: HARSH ENVIRONMENT





ADVANCED PERFORMANCE
**Super ITS-921 Reverse-Bayonet
 Rigid Insert, High-Ampacity Connectors**
 Contact Tools



INSERTION AND REMOVAL TOOLS

Insert and remove Series 921 Super ITS™ contacts with plastic and metallic tools.



Insertion and Removal Tool			
Contact Size	Type	Part Number	Figure
16	Insertion/Extraction	ATR-M-0402-13024	A
12	Insertion/Extraction	ATR-M-0370-13024	A
8	Insertion/Extraction	ATR-M-0401-13024	B
4	Insertion/Extraction	ATR-M-0400-13024	B
1/0	Extraction	ATR-M-0369-13024	C

WIRE SEAL GROMMET

Wire seals come in 5 cable diameters and accommodate contacts from #16 to 2/0. Grommet length may be cut to length. Contact factory for proper length.



Single Wire Seal			
Contact Size	Part Number	Overall Cable Diameter Dimensions	
		Ø min.	Ø max.
12, 16	921-12-WS	1 (0.04)	5 (0.20)
8	921-8-WS	4 (0.16)	8 (0.31)
4	921-4-WS	7 (0.28)	12.7 (0.50)
1/0	921-0-WS	10 (0.39)	15.8 (0.62)
2/0	921-2-0-WS	12 (0.47)	17.8 (0.70)

SUPER ITS: HARSH ENVIRONMENT

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ADVANCED PERFORMANCE
**Super ITS-921 Reverse-Bayonet
 Rigid Insert, High-Ampacity Connectors**
 Wiring Instructions

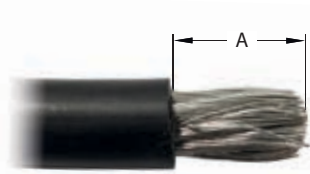


WIRING INSTRUCTIONS

1. Measure the outer diameter of the cable.



4. Cut and strip the wire as per the table below.



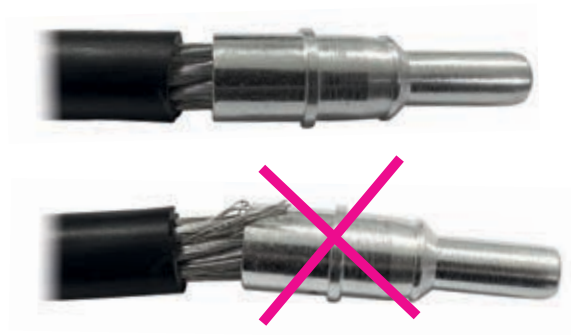
Wire Size	A
16	6.4 (0.25)
12	8.5 (0.33)
10	12.2 (0.48)
8	12.2 (0.48)
6	12.2 (0.48)
4	12.2 (0.48)
1/0	14 (0.55)
2/0	20 (0.79)

2. Cut the Single Wire Seal to suit the measured cable.



In order to cut the wire seal please contact the factory for the correct dimensions.

5. Insert the stripped conductor in the contact bucket. Ensure that no strands stick out.



3. Slide the Wire Seal up the cable; smallest bore first. (We advise spreading a thin layer of grease on the cable to ease assembly). Check that the Wire Seal is correctly orientated for assembly.



6. Crimp the contact on the conductor with the tool indicated in "Contact Crimp Tool" table on page 21.



For further Crimping details, please contact the factory.

SUPER ITS: HARSH ENVIRONMENT

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ADVANCED PERFORMANCE
Super ITS-921 Reverse-Bayonet
Rigid Insert, High-Ampacity Connectors
 Wiring Instructions



WIRING INSTRUCTIONS (CONTINUED)

7. Consult the "Insertion and Removal Tool" table on page G-6 to ascertain if an Insertion Tool is required. Insert the insertion tool from the front side of the connector and at the same time push the cable from the back. If the insertion tool is not needed, go to step 8. Otherwise go to step 9.



8. Insert the contact from the rear side. Push the cable until a click of the internal locking clip can be felt.



9. Check the correct final position of the contact by pushing it from the front end. Removal of the contact should not be possible without the use of an extractor.

10. Slide the Single Wire Seal along the cable and insert it into the back of the insulator.



11. To remove the contact use the removal tool (see the "Insertion and Removal Tool" table on page G-6). Insert the tool from the front end of the connector and push it over the contact thoroughly. At the same time pull the cable from the rear end.



SUPER ITS: HARSH ENVIRONMENT

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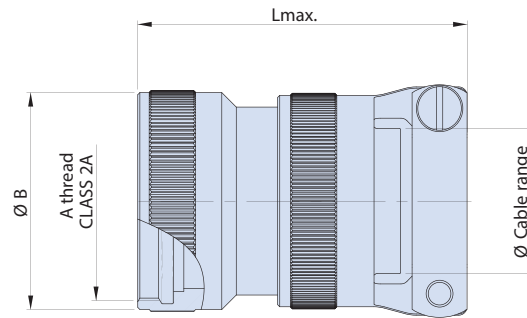


ADVANCED PERFORMANCE Super ITS-921 Reverse-Bayonet Rigid Insert, High-Ampacity Connectors Backshells



CABLE CLAMP

Provides users the benefits of an environmental sealing backshell combined with a style "C" cable clamp strain relief. Class 2A accessory thread and cable gland with three cable entry options per shell size.



Dimensions						
Shell Size	A Thread Class 2A	ØB max.	L max.	Ø Cable Range		
				Option 1	Option 2	Option 3
24	1 3/8 - 18 UNEF	40 (1.57)	80 (3.15)	11.3 (0.44) - 19 (0.75)	15.5 (0.61) - 23.8 (0.94)	23.4 (0.92) - 31.75 (1.25)
28	1 5/8 - 18 UNEF	46 (1.81)	85 (3.35)	11.3 (0.445) - 19 (.748)	15.5 (.610) - 23.8 (.937)	23.4 (.921) - 31.75 (1.250)
32	1 7/8 - 16 UN	53 (2.09)	92 (3.62)	15.5 (0.610) - 23.8 (.937)	23.4 (0.921) - 31.75 (1.250)	23.4 (.921) - 35 (1.378)
40	1 5/16 - 16 UN	64 (2.52)	120 (4.72)	23.4 (0.921) - 35 (1.378)	23.4 (0.921) - 35 (1.378)	29.9 (1.177) - 41.25 (1.624)

Material / Finish Option								
Shell Size	Ø Cable Range [mm]	F6	G3	MT	M	G2	Z1	AB
		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Stainless Steel	Marine Bronze
		Black Electrostatic Paint	Cadmium Olive Drab	Nickel-PTFE	Electroless Nickel	Anodize Hardcoat	Passivate	Unplated
24	11.3 - 19	921-115-24F6	921-115-24G3	921-115-24MT	921-115-24M	921-115-24G2	921-115-24Z1	921-115-24AB
	15.5 - 23.8	921-116-24F6	921-116-24G3	921-116-24MT	921-116-24M	921-116-24G2	921-116-24Z1	921-116-24AB
	23.4 - 31.75	921-117-24F6	921-117-24G3	921-117-24MT	921-117-24M	921-117-24G2	921-117-24Z1	921-117-24AB
28	11.3 - 19	921-115-28F6	921-115-28G3	921-115-28MT	921-115-28M	921-115-28G2	921-115-28Z1	921-115-28AB
	15.5 - 23.8	921-116-28F6	921-116-28G3	921-116-28MT	921-116-28M	921-116-28G2	921-116-28Z1	921-116-28AB
	23.4 - 31.75	921-117-28F6	921-117-28G3	921-117-28MT	921-117-28M	921-117-28G2	921-117-28Z1	921-117-28AB
32	15.5 - 23.8	921-116-32F6	921-116-32G3	921-116-32MT	921-116-32M	921-116-32G2	921-116-32Z1	921-116-32AB
	23.4 - 31.75	921-117-32F6	921-117-32G3	921-117-32MT	921-117-32M	921-117-32G2	921-117-32Z1	921-117-32AB
	23.4 - 35	921-118-32F6	921-118-32G3	921-118-32MT	921-118-32M	921-118-32G2	921-118-32Z1	921-118-32AB
40	23.4 - 31.75	921-117-40F6	921-117-40G3	921-117-40MT	921-117-40M	921-117-40G2	921-117-40Z1	921-117-40AB
	23.4 - 35	921-118-40F6	921-118-40G3	921-118-40MT	921-118-40M	921-118-40G2	921-118-40Z1	921-118-40AB
	29.9 - 41.25	921-119-40F6	921-119-40G3	921-119-40MT	921-119-40M	921-119-40G2	921-119-40Z1	921-119-40AB

SUPER ITS: HARSH ENVIRONMENT

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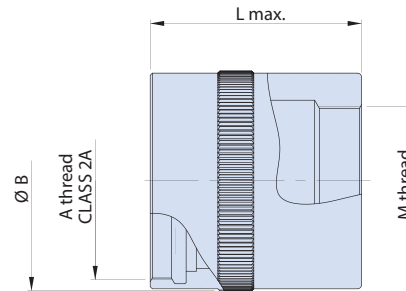


ADVANCED PERFORMANCE Super ITS-921 Reverse-Bayonet Rigid Insert, High-Ampacity Connectors Backshells



ENVIRONMENTAL SEALING BACKSHELL WITH CABLE GLAND

Provides users the benefits of an environmental sealing backshell. Class 2A accessory thread and cable gland with three cable entry options per shell size.



SUPER ITS: HARSH ENVIRONMENT

Dimensions						
Shell Size	A Thread Class 2A	ØB max.	L max.	Ø Cable Range [mm]		
				Option 1	Option 2	Option 3
24	1 3/8 - 18 UNEF	40 (1.57)	55 (2.17)	M25 x 1.5	M32 x 1.5	M36 x 1.5
28	1 5/8 - 18 UNEF	46 (1.81)	60 (2.36)	M25 x 1.5	M32 x 1.5	M36 x 1.5
32	1 7/8 - 16 UN	53 (2.09)	70 (2.76)	M32 x 1.5	M36 x 1.5	M40 x 1.5
40	1 5/16 - 16 UN	64 (2.52)	80 (3.15)	M36 x 1.5	M40 x 1.5	M50 x 1.5

Material / Finish Option								
Shell Size	Ø Cable Range [mm]	F6	G3	MT	M	G2	Z1	AB
		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Stainless Steel	Marine Bronze
		Black Electrostatic Paint	Cadmium Olive Drab	Nickel-PTFE	Electroless Nickel	Anodize Hardcoat	Passivate	Unplated
24	M25 x 1.5	921-105-24F6	921-105-24G3	921-105-24MT	921-105-24M	921-105-24G2	921-105-24Z1	921-105-24AB
	M32 x 1.5	921-106-24F6	921-106-24G3	921-106-24MT	921-106-24M	921-106-24G2	921-106-24Z1	921-106-24AB
	M36 x 1.5	921-107-24F6	921-107-24G3	921-107-24MT	921-107-24M	921-107-24G2	921-107-24Z1	921-107-24AB
28	M25 x 1.5	921-105-28F6	921-105-28G3	921-105-28MT	921-105-28M	921-105-28G2	921-105-28Z1	921-105-28AB
	M32 x 1.5	921-106-28F6	921-106-28G3	921-106-28MT	921-106-28M	921-106-28G2	921-106-28Z1	921-106-28AB
	M36 x 1.5	921-107-28F6	921-107-28G3	921-107-28MT	921-107-28M	921-107-28G2	921-107-28Z1	921-107-28AB
32	M32 x 1.5	921-106-32F6	921-106-32G3	921-106-32MT	921-106-32M	921-106-32G2	921-106-32Z1	921-106-32AB
	M36 x 1.5	921-107-32F6	921-107-32G3	921-107-32MT	921-107-32M	921-107-32G2	921-107-32Z1	921-107-32AB
	M40 x 1.5	921-108-32F6	921-108-32G3	921-108-32MT	921-108-32M	921-108-32G2	921-108-32Z1	921-108-32AB
40	M36 x 1.5	921-107-40F6	921-107-40G3	921-107-40MT	921-107-40M	921-107-40G2	921-107-40Z1	921-107-40AB
	M40 x 1.5	921-108-40F6	921-108-40G3	921-108-40MT	921-108-40M	921-108-40G2	921-108-40Z1	921-108-40AB
	M50 x 1.5	921-109-40F6	921-109-40G3	921-109-40MT	921-109-40M	921-109-40G2	921-109-40Z1	921-109-40AB

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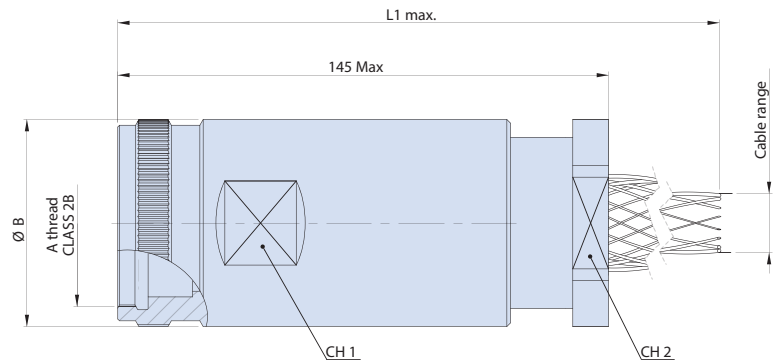
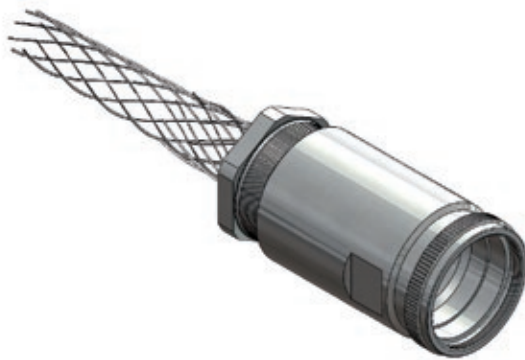


ADVANCED PERFORMANCE
**Super ITS-921 Reverse-Bayonet
 Rigid Insert, High-Ampacity Connectors**
 Backshells



WIRE MESH STRAIN RELIEF

Heavy duty backshell, straight exit, with wire mesh cable grip. Class 2B accessory thread with wrench flats for easy installation



Dimensions									
Shell Size	KG Code	Ref.	Cable Range		A Thread Class 2B	ØB Max	L1 Max.	CH 1	CH 2
			Min.	Max.					
32	KG2	MS90561-2	25.5 (1.00)	29.1 (1.15)	1 7/8 -16 UN	59 (2.32)	305 (12.01)	53 (2.09)	52 (2.05)
	KG3	MS90561-3	26.8 (1.06)	32.0 (1.26)			320 (12.60)		
	KG13	MS90561-13	30.1 (1.19)	34.1 (1.34)			335 (13.19)		
40	KG6	MS90561-6	31.0 (1.22)	34.9 (1.37)	2 5/16 - 16 UNs	69 (2.72)	360 (14.17)	63 (2.48)	62 (2.44)
	KG15	MS90561-15	34.5 (1.36)	38.5 (1.52)			385 (15.16)		
	KG19	MS90561-19	39.4 (1.55)	44.4 (1.75)			410 (16.14)		

Material / Finish Option								
Shell Size	KG Code	F6	G3	MT	M	G2	Z1	AB
		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Stainless Steel	Marine Bronze
		Black Electrostatic Paint	Cadmium Olive Drab	Nickel-PTFE	Electroless Nickel	Anodize Hardcoat	Passivate	Unplated
32	KG2	921-123-32F6	921-123-32G3	921-123-32MT	921-123-32M	921-123-32G2	921-123-32Z1	921-123-32AB
	KG3	921-124-32F6	921-124-32G3	921-124-32MT	921-124-32M	921-124-32G2	921-124-32Z1	921-124-32AB
	KG13	921-125-32F6	921-125-32G3	921-125-32MT	921-125-32M	921-125-32G2	921-125-32Z1	921-125-32AB
40	KG6	921-126-40F6	921-126-40G3	921-126-40MT	921-126-40M	921-126-40G2	921-126-40Z1	921-126-40AB
	KG15	921-127-40F6	921-127-40G3	921-127-40MT	921-127-40M	921-127-40G2	921-127-40Z1	921-127-40AB
	KG19	921-128-40F6	921-128-40G3	921-128-40MT	921-128-40M	921-128-40G2	921-128-40Z1	921-128-40AB

SUPER ITS: HARSH ENVIRONMENT

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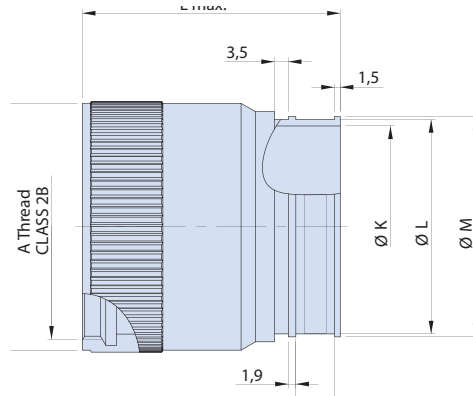


ADVANCED PERFORMANCE Super ITS-921 Reverse-Bayonet Rigid Insert, High-Ampacity Connectors Backshells



EMI/RFI BANDING ADAPTER WITH INTEGRATED SHIELD TERMINATION PORCH

Terminate cable shield to EMI/RFI banding porch using Band-Master ATS band (sold separately).



SUPER ITS: HARSH ENVIRONMENT

CableEntryDimensions			
CableEntry	ØK	ØL	ØM
14	23.8 (0.94)	27 (1.06)	28.5 (1.12)
16	27 (1.06)	30.2 (1.19)	31.8 (1.25)
18	31.8 (1.25)	34.9 (1.37)	36.5 (1.44)
19	34.9 (1.37)	38.1 (1.50)	39.7 (1.56)
20	38.1 (1.50)	41.3 (1.63)	42.8 (1.69)
23	47.6 (1.87)	50.8 (2.00)	52.4 (2.06)
24	50.8 (2.00)	54 (2.13)	55.5 (2.19)

Dimensions				
Shell Size	A Thread Class 2A	ØB max.	L max.	Cable Entry
24	1 3/8 - 18 UNEF	40 (1.57)	65 (2.56)	14. 16. 18
28	1 5/8 - 18 UNEF	46 (1.81)	65 (2.56)	14. 16. 18
32	1 7/8 - 16 UN	53 (2.09)	70 (2.76)	18. 19. 20
40	1 5/16 - 16 UN	64 (2.52)	75 (2.95)	20. 23. 34

Material / Finish Option								
Shell Size	Cable Entry	F6	G3	MT	M	G2	Z1	AB
		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Stainless Steel	Marine Bronze
		Black Electrostatic Paint	Cadmium Olive Drab	Nickel-PTFE	Electroless Nickel	Anodize Hardcoat	Passivate	Unplated
24	14	921-133-24F6	921-133-24G3	921-133-24MT	921-133-24M	921-133-24G2	921-133-24Z1	921-133-24AB
	16	921-134-24F6	921-134-24G3	921-134-24MT	921-134-24M	921-134-24G2	921-134-24Z1	921-134-24AB
	18	921-135-24F6	921-135-24G3	921-135-24MT	921-135-24M	921-135-24G2	921-135-24Z1	921-135-24AB
28	14	921-133-28F6	921-133-28G3	921-133-28MT	921-133-28M	921-133-28G2	921-133-28Z1	921-133-28AB
	16	921-134-28F6	921-134-28G3	921-134-28MT	921-134-28M	921-134-28G2	921-134-28Z1	921-134-28AB
	18	921-135-28F6	921-135-28G3	921-135-28MT	921-135-28M	921-135-28G2	921-135-28Z1	921-135-28AB
32	18	921-135-32F6	921-135-32G3	921-135-32MT	921-135-32M	921-135-32G2	921-135-32Z1	921-135-32AB
	19	921-136-32F6	921-136-32G3	921-136-32MT	921-136-32M	921-136-32G2	921-136-32Z1	921-136-32AB
	20	921-137-32F6	921-137-32G3	921-137-32MT	921-137-32M	921-137-32G2	921-137-32Z1	921-137-32AB
40	20	921-137-40F6	921-137-40G3	921-137-40MT	921-137-40M	921-137-40G2	921-137-40Z1	921-137-40AB
	23	921-138-40F6	921-138-40G3	921-138-40MT	921-138-40M	921-138-40G2	921-138-40Z1	921-138-40AB
	24	921-139-40F6	921-139-40G3	921-139-40MT	921-139-40M	921-139-40G2	921-139-40Z1	921-139-40AB

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ADVANCED PERFORMANCE
**Super ITS-921 Reverse-Bayonet
 Rigid Insert, High-Ampacity Connectors**
 Protective Covers



METAL PROTECTIVE COVERS

Metal covers protect unmated series 921 connectors. Available with no attachment or choose sash chain or nylon-coated wire rope attachments from the ordering table. For shell materials and finishes see HOW TO ORDER table.



Plug Cover with
Sash Chain



Plug Cover with
Nylon Coated SST
Wire Rope



Receptacle Cover
with Sash Chain



Receptacle Cover
with Nylon Coated
SST Wire Rope

How To Order					
Sample Part Number		921-02T	-24	F6	N
Series	921-02T = receptacle cover 921-06T = plug cover				
Shell Size	24, 28, 32, 40				
Material and Finish	F6 = aluminum, black electrostatic paint G3 = aluminum, cadmium, olive drab MT = aluminum nickel-PTFE M = aluminum, electroless nickel G2 = aluminum, anodize, hardcoat Z1 = stainless steel, passivate AB = marine bronze, unplated				
Attachment Type	N = no attachment S = sash chain with clevis fitting H = nylon coated SST wire rope with ring terminal SR = sash chain with clevis fitting for jam-nut HR = nylon coated SST wire rope with ring for jam-nut				

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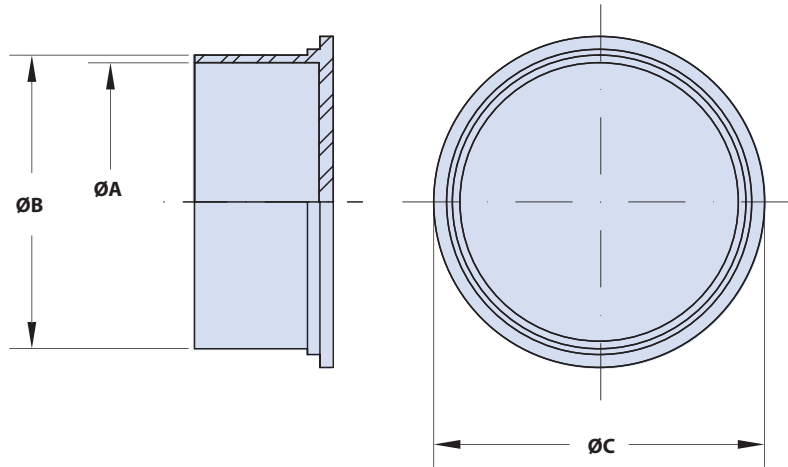


ADVANCED PERFORMANCE
Super ITS-921 Reverse-Bayonet
Rigid Insert, High-Ampacity Connectors
 Protective Covers and Sealing Plugs



PLASTIC PROTECTIVE COVERS

Plastic cap for receptacle and plug connectors for protection against dust and mechanical damage for use during shipping and storage.



SUPER ITS: HARSH ENVIRONMENT

Receptacle Plastic Dust Cap Dimensions				
Part Number	Shell Size	ØA ±0.25 (.010)	ØB ±0.25 (.010)	ØC ± 0.78 (.031)
IT P02-24	24	40.65 (1.600)	43.20 (1.701)	47.00 (1.850)
IT P02-28	28	46.45 (1.829)	49.05 (1.931)	52.00 (2.047)
IT P02-32	32	53.15 (2.093)	55.75 (2.195)	60.00 (2.362)
IT P02-40	40	65.25 (2.569)	67.85 (2.671)	72.00 (2.835)

Plug Plastic Dust Cap Dimensions				
Part Number	Shell Size	ØA ±0.25 (.010)	ØB ±0.25 (.010)	ØC ±0.78 (.031)
IT90376-24R	24	37.16 (1.463)	39.94 (1.572)	43.18 (1.700)
IT90376-28R	28	43.56 (1.715)	45.46 (1.790)	49.53 (1.950)
IT90376-32R	32	49.91 (1.965)	51.82 (2.040)	56.39 (2.220)
IT90376-40R	40	61.98 (2.440)	64.26 (2.530)	67.56 (2.660)

SEALING PLUG

Sealing plugs and wire seals are used to seal unwired contact cavities.



Sealing Plug	
Contact Size	Part Number
16	921-16-HP
12	921-12-HP
8	921-8-HP
4	921-4-HP
1/0	921-0-HP
2/0	921-2-0-HP

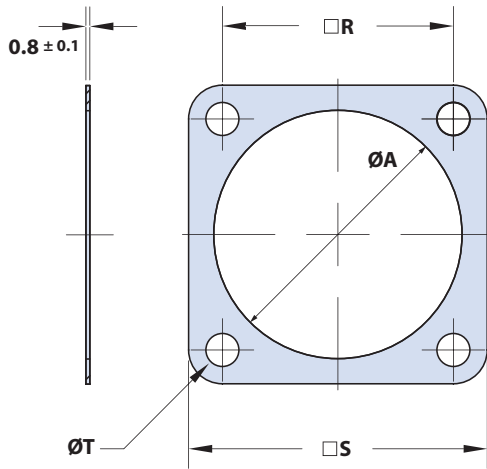
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ADVANCED PERFORMANCE
Super ITS-921 Reverse-Bayonet
Rigid Insert, High-Ampacity Connectors
Panel Mount Receptacle Gaskets



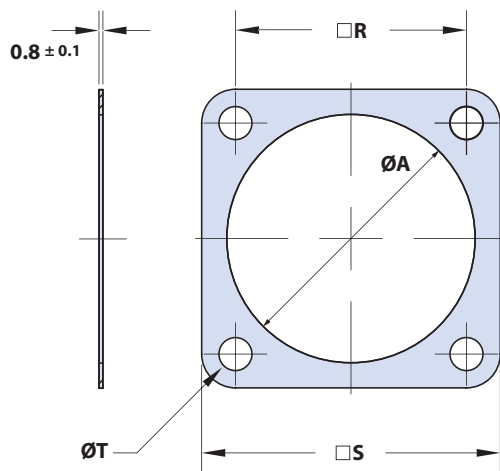
FRONT PANEL MOUNT RECEPTACLE GASKETS



NonConductiveGasketDimensions					
Shell Size	Part Number	ØA +1.0(.039)	R ±0.2(.008)	S ±0.5(.020)	ØT +0.5(.020)
24	921-014-S24	38.0 (1.50)	34.9 (1.37)	44.5 (1.75)	4.2 (0.17)
28	921-014-S28	44.3 (1.74)	39.7 (1.56)	50.8 (2.00)	5.1 (0.20)
32	921-014-S32	50.7 (2.00)	44.5 (1.75)	57.0 (2.24)	5.1 (0.20)
40	921-014-S40	61.9 (2.44)	55.5 (2.19)	69.9 (2.75)	5.1 (0.20)

ConductiveGasketDimensions					
Shell Size	Part Number	ØA +1.0(.039)	R ±0.2(.008)	S ±0.5(.020)	ØT +0.5(.020)
24	921-014-X24	38.0 (1.50)	34.9 (1.37)	44.5 (1.75)	106.68 (4.20)
28	921-014-X28	44.3 (1.74)	39.7 (1.56)	50.8 (2.00)	129.54 (5.10)
32	921-014-X32	50.7 (2.00)	44.5 (1.75)	57.0 (2.24)	129.54 (5.10)
40	921-014-X40	61.9 (2.44)	55.5 (2.19)	69.9 (2.75)	129.54 (5.10)

REAR PANEL MOUNT RECEPTACLE GASKETS



NonConductiveGasketDimensions					
Shell Size	Part Number	ØA +1.0(.039)	R ±0.2(.008)	S ±0.5(.020)	ØT +0.5(.020)
24	921-024-S24	40.9 (1.61)	34.9 (1.37)	44.5 (1.75)	4.2 (0.17)
28	921-024-S28	46.7 (1.84)	39.7 (1.56)	50.8 (2.00)	5.1 (0.20)
32	921-024-S32	53.4 (2.10)	44.5 (1.75)	57.0 (2.24)	5.1 (0.20)
40	921-024-S40	64.5 (2.54)	55.5 (2.19)	69.9 (2.75)	5.1 (0.20)

ConductiveGasketDimensions					
Shell Size	Part Number	ØA +1.0(.039)	R ±0.2(.008)	S ±0.5(.020)	ØT +0.5(.020)
24	921-024-X24	40.9 (1.61)	34.9 (1.37)	44.5 (1.75)	4.2 (0.17)
28	921-024-X28	46.7 (1.84)	39.7 (1.56)	50.8 (2.00)	5.1 (0.20)
32	921-024-X32	53.4 (2.10)	44.5 (1.75)	57.0 (2.24)	5.1 (0.20)
40	921-014-X40	64.5 (2.54)	55.5 (2.19)	69.9 (2.75)	5.1 (0.20)

SUPER ITS: HARSH ENVIRONMENT

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REVERSE-BAYONET Super ITS-MB Seacrow™ Marine Bronze Connectors



Product Selection Guide



SUPER ITS - SEACROW™
CONNECTOR OVERVIEW
SHELL STYLE, CLASS AND ACCESSORY SUMMARY

PAGE A-31
PAGE A-32

**SEE APPENDIX FOR PANEL CUTOUTS AND MAXIMUM PANEL THICKNESSES,
CONTACT PERFORMANCE RATINGS, CONTACTS, CONTACT CRIMPING
TOOLS, INSERTION AND REMOVAL TOOLS, CONTACT DIMENSIONS,
CONNECTOR COVERS AND ACCESSORIES**



SUPER ITS - SEACROW™
**MIL-DTL-5015 REVERSE-BAYONET MARINE BRONZE
POWER AND SIGNAL CONNECTORS**

PAGE A-34

SUPER ITS: HARSH ENVIRONMENT

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REVERSE-BAYONET

Super ITS-MB Seacrow™ Connectors

For amphibious vehicle, geo-marine,
and other harsh-environment applications



Super ITS - MB Seacrow reverse bayonet marine bronze series connectors are compliant with MIL-DTL-5015, using the same power and signal insert arrangements but with reverse-bayonet coupling and precision-machined marine bronze construction. Typically used for power and signal transmission, with wires from 26 AWG to 4/0, these ultra-harsh environment connectors are ideally suited for above-deck navy shipboard applications where repeated exposure to seawater and salt spray can quickly degrade effectiveness of connector finishes leading to corrosion and possible failure.

Super-ITS MB Seacrow connectors exceed VG95234 standards for both sealing and durability. Over 200 plus MIL-STD-1651A, standard and combo insert arrangements are available, in 9 shell sizes fully tooled and ready for immediate shipment. A wide selection of backshell options including cable shield termination for EMI/RFI applications and cable sealing backshells for conduit termination ensure reliable shielding and sealing performance. IP67 protection standard with IP68 available on request.

- Precision-machined marine bronze alloy for superior corrosion resistance and reliable mating in seawater and other harsh environments—no plating or passivation required
- Ideal for shipboard and other harsh geo-marine applications (VG95234 versions available for military / defense)
- IP67 environmental sealing in mated condition; IP68 versions available
- Super ITS - MB Seacrow connectors accommodate wires from 26 AWG square to 4/0 AWG
- Over 200 power and signal arrangements IAW MIL-DTL-5015 / VG95234
- Precision-machined for outstanding mating performance and durability

SUPER ITS: HARSH ENVIRONMENT

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REVERSE-BAYONET Super ITS-MB Seacrow™ Marine Bronze Connectors



Shell Style, Class, and Accessory Options

Receptacles

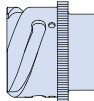
ITS 00

Front Panel Mount,
Wall Mount Receptacle



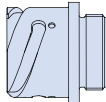
ITS 01

In Line Receptacle



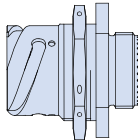
ITS 030

Rear Panel Mount,
Wall Mount Receptacle



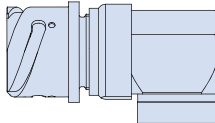
ITB 070

Rear Panel Mount,
Jam-Nut Receptacle



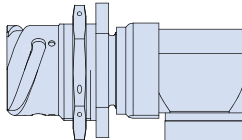
ITB 038

90° Rear Panel Mount,
Wall Mount Receptacle



ITB 078

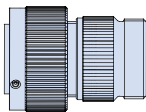
90° Rear Panel Mount,
Jam-Nut Receptacle



Plugs

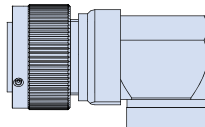
ITS 06

ITS Plug



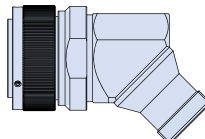
ITS 08GS

ITS 90° Plug



ITS 045

ITS 45° Plug



Class Types

Environmental Backshells with
Wire Sealing Grommet

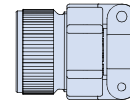
R

Environmental Adapter with
wire sealing grommet



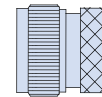
F

Environmental Adapter and Wire Sealing
Grommet with Cable Clamp Backshell
and Bushing for Jacketed Cable



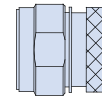
G

Environmental Backshell
and Wire Sealing Grommet with
Shrink Boot Groove



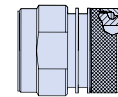
GR

Environmental Adapter
and Wire Sealing Grommet with
Rotatable Coupling Nut
and Shrink Boot Groove



SP

Environmental Adapter and Wire Sealing
Grommet with EMI/RFI Cable Shield
Termination and Shrink Boot Groove



RS

Environmental Lipped Backshell
with Wire Sealing Grommet and Potting Well



SUPER ITS: HARSH ENVIRONMENT

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REVERSE-BAYONET Super ITS-MB Seacrow™ Marine Bronze Connectors

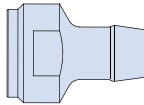


Shell Style, Class, and Accessory Options

Backshell Accessories

BR

Threaded Backshell for Termination of UNI 4883 Rubber Conduit



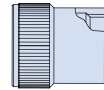
PG

Thread Backshell for PG Cable Glands; adapter not required



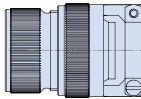
FM

Metric Thread Backshell for Metric Cable Glands; adapter not required



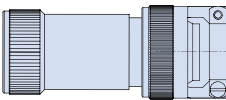
N5

Environmental Class C, Cable Clamp Backshell for Jacketed Cables



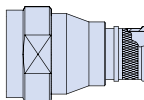
N2N5

Environmental Class C, Cable Clamp Backshell and Long Adapter Included



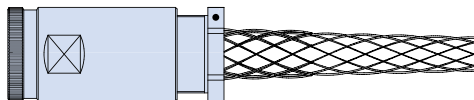
ZL/ZLF

Non-Environmental; EMI/RFI Backshell with Cable Shield Termination Banding Porch; ZLF includes band



KG

Kellems Grip Backshell



NO

Connector only; no backshell

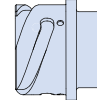
NOG

Connector with grommet and compression ring; no backshell

Panel Mount Connectors without Accessory Threads

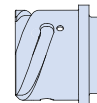
ITB 02

Front Panel Mount, Box Mount Receptacle



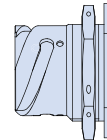
ITB 03

Rear Panel Mount, Box Mount Receptacle



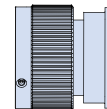
ITB 07

Rear Panel Mount Box Mount Jam-Nut Receptacle



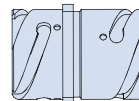
ITB 26

Panel Mounting Plug



ITB 02 PP

Solid Contact Bulkhead Feed Through



SUPER ITS: HARSH ENVIRONMENT

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REVERSE-BAYONET Super ITS-MB Seacrow™ Marine Bronze Connectors



How to order



Super ITS-MB Seacrow advanced durability reverse-bayonet signal / power connectors

Super ITS-MB Seacrow connectors are precision-machined, reverse-bayonet interconnects with improved 1000 hr salt spray and 2000 mating cycle durability. VG95234 compliant. Accommodates wires from 32 AWG to 4/0. Available backshell options are suited for the broad range of above-deck shipboard and other harsh naval application environments. IP67 standard with IP68 available on request.

SUPER ITS: HARSH ENVIRONMENT

How To Order												
SAMPLE PART NUMBER	FR	ITB	G	41	00	R		20-27	P	Y	B1	MB
Elastomer Option	OMIT for polychloroprene FR = Fire resistant elastomer S = Silicone elastomer V = Viton elastomer											
Series Designator	ITS = Plug ITB = Receptacle											
Plug Grounding Fingers	G = Plug grounding fingers; plug only											
Contact Type	31 = Solder 41 = Crimp											
Shell Style*	See shell style options table											
Class Type*	See class options table											
Mounting Holes	FP = Through-holes Omit for threaded holes											
	Option only available for wall mount shell styles 03, 030, and 038											
Shell Size/Insert Arrangement	See Appendix											
Contact Gender	P = Pin S = Socket											
Polarization	W, X, Y, Z insert rotations, see Appendix											
Contact Options	See contact options table											
Accessory Option**	NØ = No accessory; see accessory options											
Material / Finish Option	MB = Marine Bronze											

* Class type will automatically default to "A" if accessory option NØ is selected.

** Refer to shell style / class availability matrix below



REVERSE-BAYONET Super ITS-MB Seacrow™ Marine Bronze Connectors



How to order

Shell Style / Class Matrix									
Shell Style	Class								
	R	AR	F	GR	GS	RS	SP	KG	Y
ITB 00	✓		✓	✓		✓	✓		
ITB 01	✓		✓	✓		✓	✓	✓	
ITB 02	✓								✓
ITB 03	✓								✓
ITB 030	✓		✓	✓		✓	✓		
ITB 038	✓								
ITB 07	✓								
ITB 070		✓		✓					
ITB 078	✓								
ITS 26	✓								
ITS 06	✓		✓	✓		✓	✓	✓	
ITS 08	✓		✓	✓	✓		✓		

Plug and Receptacle Shell Style Options	
Sym	Description
00	Front panel mount, wall mount receptacle
01	Inline cable receptacle connector
02	Front panel mount, box mount receptacle with through-holes; no accessory threads
02PP	Front panel mount, wall mount bulkhead feed-through with threaded holes
03 ¹	Rear panel mount, box mount receptacle; No accessory threads
030 ¹	Rear panel mount, wall mount receptacle
038 ¹	Rear panel mount, wall mount receptacle and right angle adapter
07	Rear panel mount, jam-nut receptacle; no accessory threads
070	Rear panel mount, jam-nut receptacle with accessory threads
078	Rear panel mount, jam-nut receptacle with 90° adapter
06	Inline cable plug connector
08 ²	Inline cable plug with 90° adapter
26	Panel mount plug; no accessory threads

Class Options	
Code	Description
A	Non-environmental; without grommet
R	Environmental backshell with sealed insulator and wire sealing grommet
F	Environmental cable sealing backshell with cable clamp and individual wire sealing grommet
GR	Environmental backshell with rotatable coupling nut, heat shrink boot termination and wire sealing grommet
GS	Environmental 90° backshell with knurled heat shrink boot termination and wire sealing grommet
RS	Environmental lipped backshell with wire sealing grommet
SP	Environmental backshell with wire sealing grommet and EMI/RFI cable shield termination and heat shrink boot groove
Y	PC tail connector; available for 02 and 03 type shells only

Contact Options	
Sym	Description
B0	Connector without contacts
B1	Connector with gold plated contacts
Omit for standard version (silver plated)	

Material Performance	
Property	Marine Bronze/Unplated MB
Temperature Range	-55°C + 200°C
Salt Spray Hours	1000
Electrical Conductivity	Very Good
Mating Cycles	1000

NOTES

- Shell styles 03, 030 and 038 may be ordered with threaded or through-hole mounting
- BR accessories require additional ordering information; see BR Code Table for minimum and maximum cable diameters and code
- PG accessories require additional ordering information; see PG Code Table for thread options
- FM accessories require additional ordering information; see FM Code Table for thread options
- PHM and PHM EMI accessories require additional ordering information; see PHM/PHM-EMI Code Table for minimum and maximum cable diameters

SUPER ITS: HARSH ENVIRONMENT

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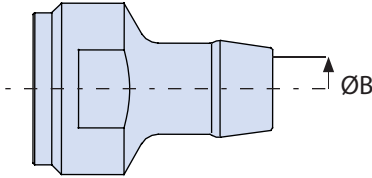


REVERSE-BAYONET Super ITS-MB Seacrow™ Marine Bronze Connectors



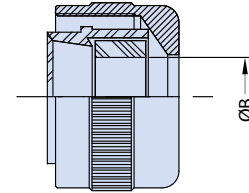
How to Order - Accessory Options

BR ADAPTER



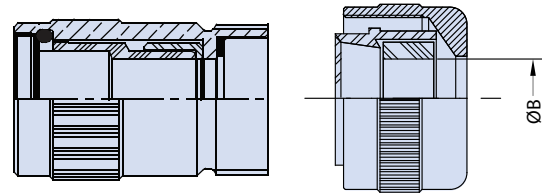
Shell Size	Standard UNI 4883 Tubing Dimensions		ØB	BR Code
	Outer Dia.	Inner Dia.		
10 SL	17.0 (0.67)	12.0 (0.47)	10.5 (0.41)	BR1712
14 S	27.0 (1.06)	22.0 (0.87)	16.5 (0.65)	BR2722
16-16 S	17.0 (0.67)	12.0 (0.47)	10.5 (0.41)	BR1712
16-16 S	20.0 (0.79)	15.0 (0.59)	14.0 (0.55)	BR2015
18	27.0 (1.06)	22.0 (0.87)	20.5 (0.81)	BR2722
20-22	17.0 (0.67)	12.0 (0.47)	10.5 (0.41)	BR1712
20-22	25.0 (0.98)	20.0 (0.79)	18.5 (0.73)	BR2520
20-22	27.0 (1.06)	22.0 (0.87)	20.5 (0.81)	BR2722
20-22	33.0 (1.30)	28.0 (1.10)	25.0 (0.98)	BR3328
20-22	35.0 (1.38)	30.0 (1.18)	28.5 (1.12)	BR3530
20-22	38.0 (1.50)	33.0 (1.30)	31.5 (1.24)	BR3833
24-28	25.0 (0.98)	20.0 (0.79)	18.5 (0.73)	BR2520
24-28	27.0 (1.06)	22.0 (0.87)	20.5 (0.81)	BR2722
24-28	30.0 (1.18)	25.0 (0.98)	23.5 (0.93)	BR3025
24-28	33.0 (1.30)	28.0 (1.10)	26.5 (1.04)	BR3328
24-28	35.0 (1.38)	30.0 (1.18)	28.5 (1.12)	BR3530
24-28	38.0 (1.50)	33.0 (1.30)	31.5 (1.24)	BR3833
24-28	50.0 (1.97)	45.0 (1.77)	43.5 (1.71)	BR5045
32	30.0 (1.18)	25.0 (0.98)	23.5 (0.93)	BR3025
32	33.0 (1.30)	28.0 (1.10)	26.5 (1.04)	BR3328
32	35.0 (1.38)	30.0 (1.18)	28.5 (1.12)	BR3530
32	40.0 (1.57)	35.0 (1.38)	31.5 (1.24)	BR4035
32	45.0 (1.77)	40.0 (1.57)	38.5 (1.52)	BR4540
32	50.0 (1.97)	45.0 (1.77)	40.0 (1.57)	BR5045
36	35.0 (1.38)	30.0 (1.18)	28.5 (1.12)	BR3530
36	40.0 (1.57)	35.0 (1.38)	31.5 (1.24)	BR4035
36	50.0 (1.97)	45.0 (1.77)	43.5 (1.71)	BR5045
40	35.0 (1.38)	30.0 (1.18)	28.5 (1.12)	BR3530
40	40.0 (1.57)	35.0 (1.38)	31.5 (1.24)	BR4035
40	45.0 (1.77)	40.0 (1.57)	38.5 (1.52)	BR4540
40	50.0 (1.97)	45.0 (1.77)	43.5 (1.71)	BR5045
40	55.0 (2.17)	50.0 (1.97)	48.5 (1.91)	BR5550

PHM BACKSHELL



Shell Size	Ø B		PHM Size
	Min. - Max.		
10 SL	2-9		PHM9
14 S	2-11		PHM11
16 S	2-11		PHM11
16	2-11		PHM11
18	2-11 / 2-16.5		PHM 11 / 18
20	2-11 / 2-16.5		PHM 11 / 18
22	2-16.5		PHM18
24	2-16.5 / 15-20 / 19-24		PHM 18 / 22 / 24
28	2-16.5 / 15-20 / 19-24		PHM 18 / 22 / 24
32	15-20 / 19-24		PHM 22 / 24
36	23-35		PHM35
40	23-35		PHM35

PHM-EMI BACKSHELL



Shell Size	Ø B		PHM Size	EMI Adapter
	Min. - Max.			
10 SL	2-9		PHM9	EMI67
14 S	2-11		PHM11	EMI67
16 S	2-11		PHM11	EMI67
16	2-11		PHM11	EMI67
18	2-11 / 2-16.5		PHM11 / 18	EMI67
20	2-11 / 2-16.5		PHM11 / 18	EMI67
22	2-16.5		PHM18	EMI67
24	2-16.5 / 15-20 / 19-24		PHM 18 / 22 / 24	EMI67
28	2-16.5 / 15-20 / 19-24		PHM 18 / 22 / 24	EMI67
32	15-20 / 19-24		PHM 22 / 24	EMI67
36	23-35		PHM35	EMI67
40	23-35		PHM35	EMI67

SUPER ITS: HARSH ENVIRONMENT

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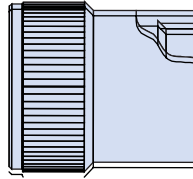


REVERSE-BAYONET Super ITS-MB Seacrow™ Marine Bronze Connectors



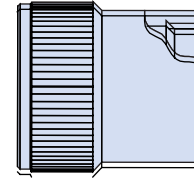
How to Order - Accessory Options

PG THREAD ADAPTER



Shell Size	PG Thread Size	Code
10 SL	7 / 9 / 11	7, 9 or 11
14 S	9 / 11 / 13.5	9, 11 or 13.5
16 S	11 / 13.5 / 16	11, 13.5 or 16
16	11 / 13.5 / 16	11, 13.5 or 16
18	13.5 / 16 / 21	13.5, 16 or 21
20	13.5 / 16 / 21	13.5, 16 or 21
22	13.5 / 16 / 21	13.5, 16 or 21
24	16 / 21 / 29	16, 21 or 29
28	16 / 21 / 29	16, 21 or 29
32	16 / 21 / 29	16, 21 or 29
36	21 / 29 / 36	21, 29 or 36
40	21 / 29 / 36	21, 29 or 36

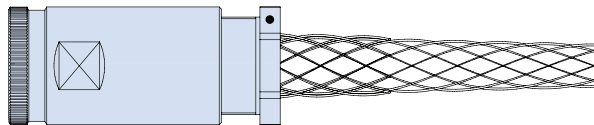
FM THREAD ADAPTER



Shell Size	FM Thread Size ¹	FM Thread Code
10 SL	M12x1.5	M12
14 S	M16x1.5	M16
16 S	M16x1.5	M16
16	M16x1.5	M16
18	M20x1.5	M20
20	M25x1.5	M25
22	M25x1.5	M25
24	M32x1.5	M32
28	M32x1.5	M32
32	M36x1.5	M36
36	M40x1.5	M40
40	M40x1.5	M40

1. Other threads available upon request

KG WIRE MESH GRIP ADAPTER



Wire Mesh Grip Size	Shell Size	Cable Range		CH Key
		Min	Max	
KG1	32	21.10 (0.831)	24.60 (0.969)	52
KG2		25.50 (1.004)	29.10 (1.146)	52
KG3		26.80 (1.055)	32.00 (1.260)	52
KG4		17.47 (0.688)	21.45 (0.844)	52
KG13		30.10 (1.185)	34.10 (1.343)	52
KG1	36	21.10 (0.831)	24.60 (0.969)	52
KG2		25.50 (1.004)	29.10 (1.146)	52
KG3		26.80 (1.055)	32.00 (1.260)	52
KG4		17.47 (0.688)	21.45 (0.844)	52
KG13		30.10 (1.185)	34.10 (1.343)	52
KG2	40	25.50 (1.004)	29.10 (1.146)	52
KG3		26.80 (1.055)	32.00 (1.260)	52
KG13		30.10 (1.185)	34.10 (1.343)	52
KG15		34.50 (1.358)	38.50 (1.516)	62
KG19		39.40 (1.551)	44.40 (1.748)	62

SUPER ITS: HARSH ENVIRONMENT

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REVERSE-BAYONET
Super ITS-IGE MB Seacrow™
Single-Pole Marine Bronze Connectors
Product Selection Guide



SUPER ITS - IGE MB SEACROW™
CONNECTOR OVERVIEW

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**SEE APPENDIX FOR PANEL CUTOUTS AND MAXIMUM PANEL THICKNESSES,
 CONTACT PERFORMANCE RATINGS, CONTACTS, CONTACT CRIMPING
 TOOLS, INSERTION AND REMOVAL TOOLS, CONTACT DIMENSIONS,
 CONNECTOR COVERS AND ACCESSORIES**



SUPER ITS - IGE MB SEACROW™
**HIGH AMPACITY, HIGH CURRENT
 REVERSE-BAYONET POWER CONNECTORS**

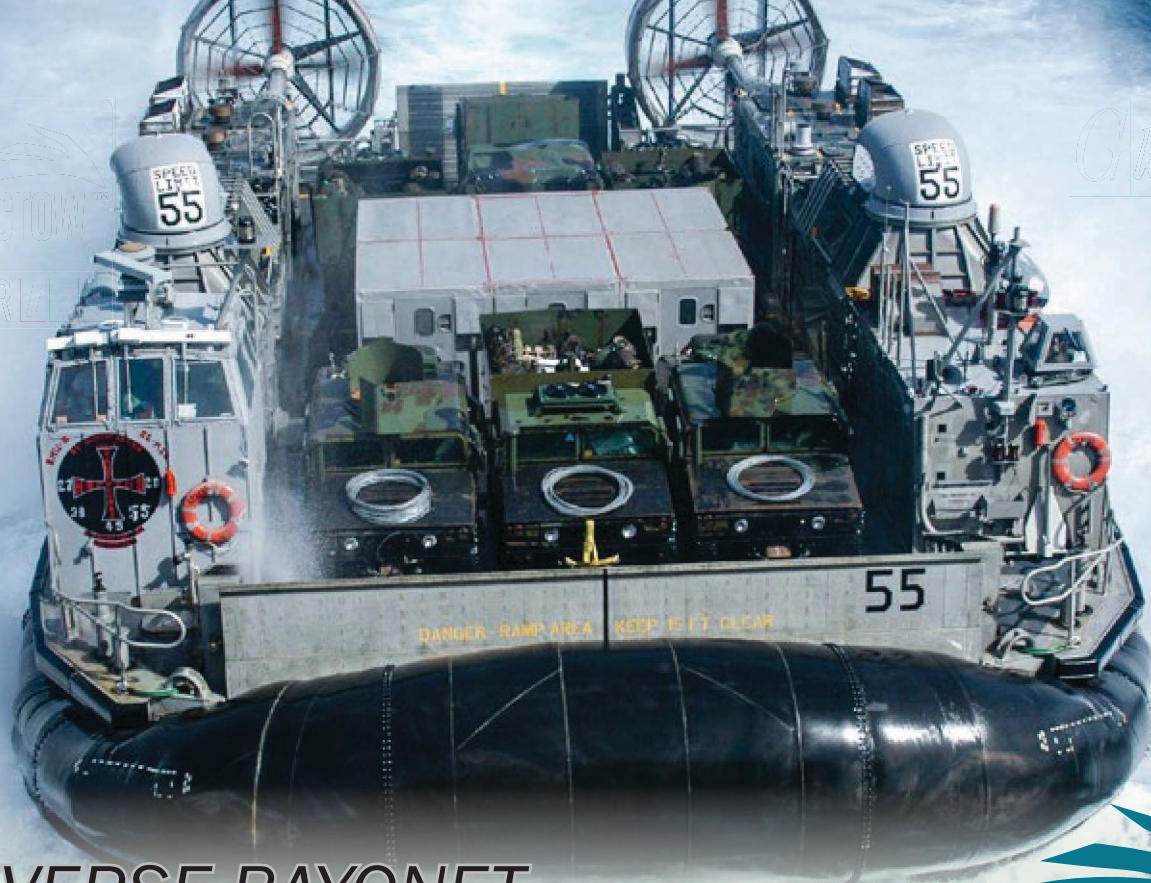
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SUPER ITS: HARSH ENVIRONMENT

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Seacrow™
SUPER ITS

Glenair



REVERSE-BAYONET

Super IGE-MB Seacrow™ Single-Pole Connectors



"High voltage at low power" Marine
Bronze connectors for harsh applications



Super ITS - IGE marine bronze Seacrow™ connectors achieve high-performance working current and peak current, making them ideal for engines, power supplies, and power distribution boxes. Seacrow 5015-type reverse-bayonet connectors are qualified to VG96929 standards. Several backshells available in either straight or 90° elbows for convenient cable routing, IP67 standard, IP68 available.



SUPER ITS: HARSH ENVIRONMENT



- Precision-machined marine bronze alloy for superior corrosion resistance in seawater and other harsh environments
- Chemical-resistant Viton® gaskets and O-rings
- Single-pole high-power VG96929 qualified
- IP68 environmental sealing in mated condition up to 1 bar / 10 m
- High power, single pole connectors accommodating cables from 25 mm square to 240 mm square
- Keyed polarization
- Rugged reverse-bayonet mating
- Crimp and bus bar termination available

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REVERSE-BAYONET Super ITS-IGE MB Seacrow™ Single-Pole Marine Bronze Connectors

Series overview



Harsh Application Environments

Glenair's Super ITS-IGE MB Seacrow Reverse-Bayonet Unipole Connectors are used for the transmission of high currents with low voltage such as required by military vehicle applications and industrial equipment. Derived from the VG95234 Series Connectors and sharing similar mating interface, mechanical requirements, and contact insert arrangements, Super ITS-IGE MB Seacrow connectors are VG96929 qualified and feature unique two-part insulating inserts (front and rear) that are retained inside the shell by a dynamic spring. Multiple exterior and interior connector O-rings create a watertight seal (1 bar) and the bayonet coupling system helps to prevent accidental unmating caused by vibration.

Rugged Materials

Super ITS-IGE MB Seacrow connector shells are precision-machined from marine bronze for superior corrosion resistance to seawater and salt spray, and life-of-system durability. Supplied crimp contacts are silver-plated copper alloy, a highly-conductive plating ideal for high current applications. Standard insert material is PTFE which provides durable performance in a temperature range from -55°C to +125°C. Gaskets and O-rings are chemical resistant Viton®.

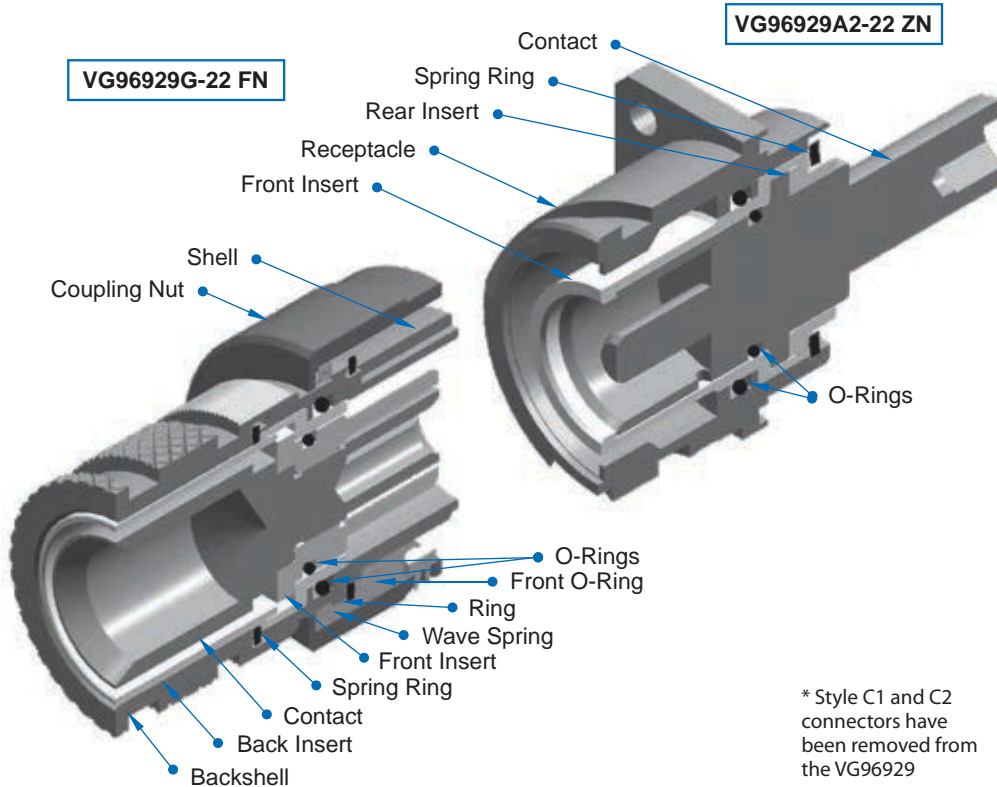
EMI and Environmental Applications

Super ITS-IGE MB Seacrow series connectors are perfectly suited for use in rugged applications where EEC compliance directives for electromagnetic compatibility are required. A complete range of EMI shield termination accessories are available for termination of both overall as well as individual wire shields. Optional plug grounding fingers are available for improved shell-to-shell resistance and grounding. Equipped with the appropriate backshells and environmental sealing, the connectors are ready to serve in applications that require resistance to both water and caustic chemicals including industrial oils and fuels.

Connector Accessories

Super ITS-IGE MB Seacrow connectors may be ordered ready-paired with appropriate backshells for common applications. A full range of additional connector accessories including dust caps and EMI gaskets are also available (see catalog Appendix). Please contact the factory for additional information or any of our worldwide sales and engineering facilities. For complete information on these products, as well as, other ruggedized power and signal connectors or visit www.glenair.com.

SUPER ITS: HARSH ENVIRONMENT



VG96929 Connector Cross Reference	
VG96929 Connectors	* Glenair Series IGE Marine Bronze
VG96929 A1	IGE 2 E ...B-04
VG96929 A2	IGE 2 E ...B-16
VG96929 B1	IGE 0 E ...B-03
VG96929 C1*	IGE 9 E ...X-B
VG96929 C2*	IGE 9 EFP ...X-B
VG96929 E	IGE 8 E ...B-14
VG96929 F	IGE 6 E ...B-14
VG96929 G	IGE 6 E ...B-03
N.A.	IGE 1 E ...B-03
N.A.	IGE 1 E ...B-14
N.A.	IGE 2 EFP ...B-04
N.A.	IGE 2 EFF ...B-16
N.A.	IGE 0 E ...B-ZL
N.A.	IGE 6 E ...B-16
N.A.	IGE 7 E ...B-16

* Style C1 and C2 connectors have been removed from the VG96929



REVERSE-BAYONET Super ITS-IGE MB Seacrow™ Single-Pole Marine Bronze Connectors



How to Order



Super ITS - IGE MB Seacrow reverse-bayonet single pole power connector with advanced sealing and durability

Super ITS IGE-MB Seacrow high-power single-pole connectors are used with cables from 16 to 240 mm. These connectors achieve high-performance working current and peak current, and are ideal for engines, power supplies, and power distribution boxes. Marine bronze backshells are available, either straight or right angle. IP67 protection is the standard performance, IP68 on request.

IGE-MB How To Order								
Sample Part Number	IGE	6E	22H9	Z	N	B	-14	MB
Series	IGE = Super ITS single-pole marine bronze connector							
Shell Style	See shell styles table							
Shell Size/Contact Size	16H2, 18H5, 22H9, 28H15, 32H24; see wire accommodation table							
Contact Gender	Z = Male F = Female X = Pin/Socket; for bulkhead feed through connectors (9E & 9EFP) only							
Insert Rotation	N = Standard W = Alternate; see alternate positions							
Coupling	B = Bayonet							
Accessory Options	NØ = No accessory; see accessory options table and reference shell style / accessory code matrix table for availability							
Material/Finish	MB = Marine bronze TZ = Tin-zinc; omit for aluminum alloy shell with cad/olive drab finish							

Shell Styles	
Shell Style	Description
0E	Rear panel mount, wall mount receptacle with threaded mounting holes
1E	In-line receptacle
2E	Front panel mount, box mount receptacle with threaded mounting holes
2EFP	Front panel mount, box mount receptacle with through mounting holes
2EFF	Front panel mount, box mount receptacle with threaded mounting holes
03	Connector with shrink boot adapter
04	Connector with crimp contacts
6E	Plug connector
7E	Rear panel mount, jam-nut receptacle
8E	Plug with grounding fingers and right angle backshell with cable shield termination and shrink boot groove
9E	Bulkhead feedthrough with threaded mounting holes
9EFP	Bulkhead feedthrough with through mounting holes

Accessory Options	
Code	Description
03	Connector with shrink boot abapter
04	Connector with crimp contacts
14	Connector and adapter with cable shield termination and shrink boot groove; grounding fingers standard when combined with plug (6E) shell style
16	Connector with threaded post
ZL	Connector and backshell with banding porch and shrink boot groove; without band
ZLF	Connector and backshell with banding porch and shrink boot groove; with band

Shell Style / Accessory Code Matrix						
Shell Styles	Accessory Codes					
	03	04	14	16	ZL	ZLF
0E	X				X	X
1E	X		X			
2E		X		X		
2EFF				X		
2EFP		X				
6E	X		X	X		
7E				X		
8E			X			

No Modification codes available for 9E or 9EFP Shell Styles

SUPER ITS: HARSH ENVIRONMENT

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REVERSE-BAYONET Super IGE-MB Seacrow™ Single-Pole Marine Bronze Connectors



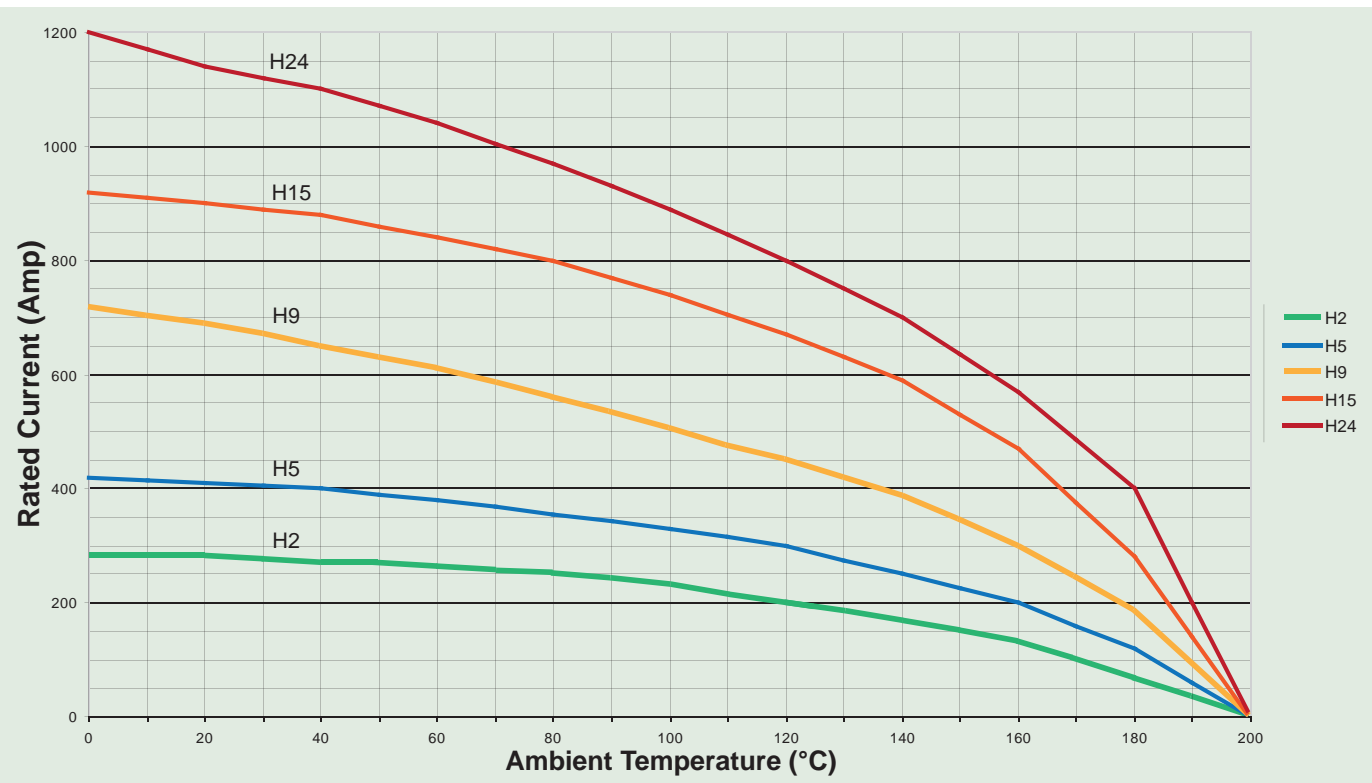
Power Connector Performance Specifications

Mechanical Performance	
Water Resistance	1 Bar
Vibration Resistance	200 m/s ² 10 to 2000 Hz
Temperature Range	-55°C to 150°C
Mating Cycles	500

Electrical Performance	
Insulating Resistance	5000 MΩ min
Test Voltage	1050 Vac
Working Voltage	350 Vac

According to MIL-STD-1344

Contact Sizes. Wire Accommodation. Electrical Performance and Coupling Torque								
Contact Size	Shell Size	Wire Size	Current Rating at 125° C	Maximum Short-Duration Current 0.5÷1s	Max Contact Resistance	Contact Retention Test Force (VG95319-2) Minimum	Coupling Torque	
							Opening and Closing Max	Opening Min
H2	16	25 mm ²	See Graphic Below	750 A	0.60 mΩ	100 N	5.5 Nm	0.5 Nm
H5	18	50 mm ²		1,000A	0.30 mΩ	120 N	8.0 Nm	0.6 Nm
H9	22	95 mm ²		2,000 A	0.15 mΩ	140 N	11.0 Nm	0.8 Nm
H15	28	150 mm ²		3,000 A	0.10 mΩ	160 N	17.0 Nm	0.9 Nm
H24	38	240 mm ²		5,000 A	0.07 mΩ	200 N	19.0 Nm	1.0 Nm



SUPER ITS: HARSH ENVIRONMENT

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REVERSE-BAYONET
Super IGE-MB Seacrow™
Single-Pole Marine Bronze Connectors
Contact Specifications



**IGE 0E, 1E, 2EFF, AND 2EFP
 CRIMP SOCKET CONTACTS**

Shell Size	IGE Shell Style	Contact Kit Part Number
SIZE 16	0E, 1E, 2EFF, and 2EFP	K-IGE16H2F
SIZE 18		K-IGE-60H5FCG10
SIZE 22		K-IGE-60H9FCG10
SIZE 28		K-IGE-60H15FCG10
SIZE 32		K-IGE-60H24FCG10

**IGE 0E, 1E, 2EFF, AND 2EFP
 CRIMP PIN CONTACTS**

Shell Size	IGE Shell Style	Contact Kit Part Number
SIZE 16	0E, 1E, 2EFF, and 2EFP	K-IGE16H2Z
SIZE 18		K-IGE-60H5ZCG10
SIZE 22		K-IGE-60H9ZCG10
SIZE 28		K-IGE-60H15ZCG10
SIZE 32		K-IGE-60H24ZCG10

IGE 8E CRIMP SOCKET CONTACTS

Shell Size	IGE Shell Style	Contact Kit Part Number
SIZE 22	8E	K-IGE8-60H9FCG10
SIZE 28		K-IGE8-60H15FCG10
SIZE 32		K-IGE8-60H24FCG10

IGE 8E CRIMP PIN CONTACTS

Shell Size	IGE Shell Style	Contact Kit Part Number
SIZE 22	8E	K-IGE8-60H9ZCG10
SIZE 28		K-IGE8-60H15ZCG10
SIZE 32		K-IGE8-60H24ZCG10

IGE 7E CRIMP SOCKET CONTACTS

Shell Size	IGE Shell Style	Contact Kit Part Number
SIZE 22	7E	K-IGE7-60H9FCG10

IGE 7E CRIMP PIN CONTACTS

Shell Size	IGE Shell Style	Contact Kit Part Number
SIZE 22	7E	K-IGE7-60H9ZCG10

IGE 6E AND 2E THREADED SOCKET CONTACTS

Shell Size	IGE Shell Style	Contact Kit Part Number
SIZE 18	6E, and 2E	K-IGE-60H5FG10
SIZE 22		K-IGE-60H9FG10
SIZE 28		K-IGE-60H15FG10
SIZE 32		K-IGE-60H24FG10

IGE 6E AND 2E THREADED PIN CONTACTS

Shell Size	IGE Shell Style	Contact Kit Part Number
SIZE 18	6E, and 2E	K-IGE-60H5Z-TG10
SIZE 22		K-IGE-60H9Z-TG10
SIZE 28		K-IGE-60H15Z-TG10
SIZE 32		K-IGE-60H24Z-TG10

**IGE 9E AND 9EFP SOLID CONTACT
 (PIN/SOCKET) FEED-THRU CONTACTS**

Shell Size	IGE Shell Style	Contact Kit Part Number
SIZE 22	9E, 9EFP	K-IGE9-60H9CG10
SIZE 28		K-IGE9-60H15CG10
SIZE 32		K-IGE9-60H24CG10

SUPER ITS: HARSH ENVIRONMENT

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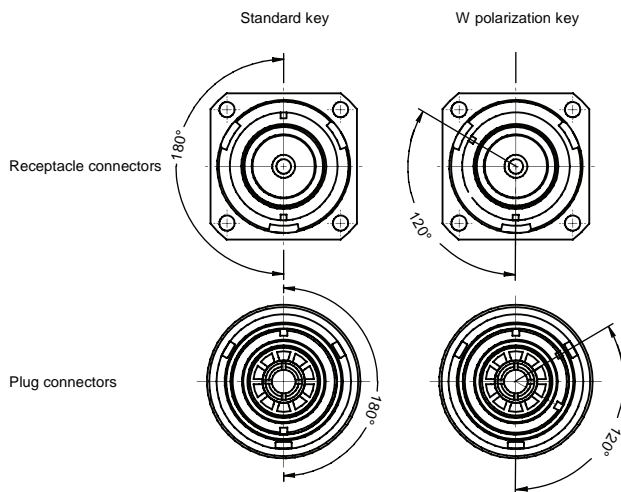
REVERSE-BAYONET Super ITS-IGE MB Seacrow™ Single-Pole Marine Bronze Connectors



How to Order

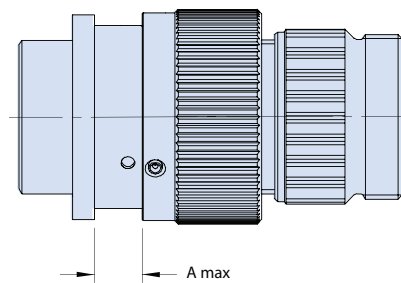
ALTERNATE KEY AND KEYWAY POSTIONS

To avoid mismatching of similar connectors . IGE connectors are available with key and keyway in two different positions:
W: 120° N: 180°



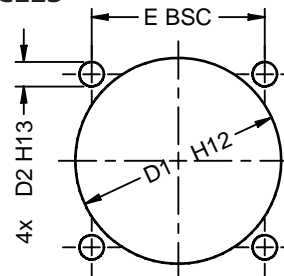
Contact Wire accommodation					
Shell Size	Contact Size	Wire Size	Current Rating at 85°C		Max. Contact Resistance
16	H2	25 mm ²	225 A	750 A	0.60 mΩ
18	H5	50 mm ²	350 A	1.000 A	0.30 mΩ
22	H9	95 mm ²	570 A	2.000 A	0.15 mΩ
28	H15	150 mm ²	750 A	3.000 A	0.10 mΩ
32	H24	240 mm ²	950 A	5.000 A	0.07 mΩ

MAXIMUM PANEL ACCOMMODATION



Shell Size	16	18	22	28	32
A Max	3.7 (0.15)	3.7 (0.15)	3.7 (0.15)	5.25 (0.21)	6.1 (0.24)

MOUNTING DIMENSIONS FOR SQUARE FLANGE RECEPTACLES



Size	D1		D2			E
	Front	Rear	2E-16	9EFP	0E-03 9E	
16	-	1.09 (0.043)	M4	M4	0.18 (0.007)	0.97 (0.038)
18	1.08 (0.043)	1.22 (0.048)	M4	M4	0.18 (0.007)	1.06 (0.042)
22	1.33 (0.052)	1.49 (0.059)	M4	M4	0.18 (0.007)	1.25 (0.049)
28	1.70 (0.067)	1.85 (0.073)	M4	M5	0.22 (0.009)	1.56 (0.061)
32	1.96 (0.077)	2.12 (0.083)	M4	M5	0.22 (0.009)	1.75 (0.069)

SUPER ITS: HARSH ENVIRONMENT

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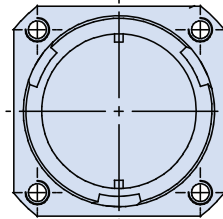
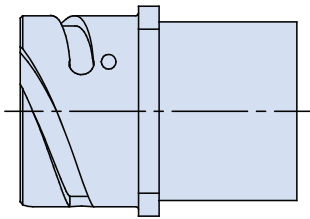


REVERSE-BAYONET Super ITS-IGE MB Seacrow™ Single-Pole Marine Bronze Connectors



Power Connector and Backshell Combinations

STYLE 2E AND 2EFP: FRONT PANEL MOUNT, BOX MOUNT RECEPTACLE — THREADED OR THROUGH-HOLE WITH CRIMP CONTACT

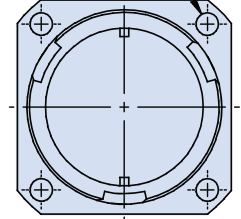
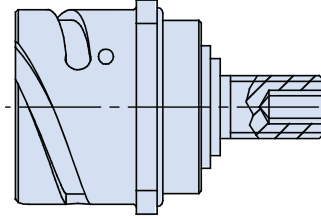


2E = Threaded. Front Panel Mount



2EFP = Through-Hole. Front Panel Mount

STYLE 2E AND 2EFP: FRONT PANEL MOUNT, BOX MOUNT RECEPTACLE — THREADED OR THROUGH-HOLE WITH THREADED CONTACT TERMINATION



2E = Threaded. Rear Panel Mount



2EFP = Through-Hole. Front Panel Mount

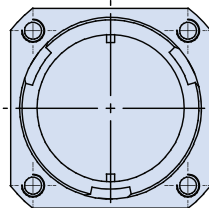
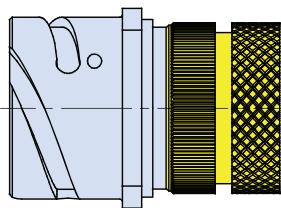
Sample Part Number

IGE	2E	22H9	Z	N	B	-04	MB
Basic P/N	Shell Style 2E or 2EFP	Shell Size and Contact Size	Contacts F = Socket Z = Pin	Keyway N - Stand. W - Alt.	Bayonet Coupling	Access. Code 04	Marine Bronze Finish

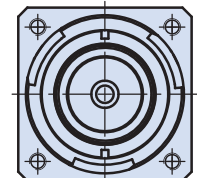
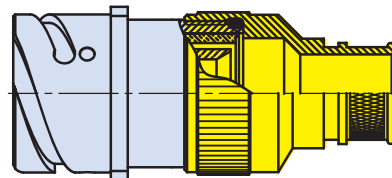
Sample Part Number

IGE	2E	22H9	Z	N	B	-16	MB
Basic P/N	Shell Style 2E or 2EFP	Shell Size and Contact Size	Contacts F - Socket Z - Pin	Keyway N - Stand. W - Alt.	Bayonet Coupling	Access. Code	Marine Bronze Finish

STYLE 0E: REAR PANEL MOUNT, WALL MOUNT RECEPTACLE WITH THREADED HOLES AND SHRINK BOOT ADAPTER



STYLE 0E: REAR PANEL MOUNT, WALL MOUNT RECEPTACLE WITH THREADED HOLES AND ADAPTER WITH SHRINK BOOT GROOVE AND BANDING PORCH WITH OR WITHOUT BAND



ZL - Supplied with Band
ZLF - Supplied without Band

Sample Part Number

IGE	0E	22H9	Z	N	B	-03	MB
Basic P/N	Shell Style	Shell Size and Contact Size	Contacts F = Socket Z = Pin	Keyway N - Stand. W - Alt.	Bayonet Coupling	Access. Code	Marine Bronze Finish

Sample Part Number

IGE	0E	22H9	Z	N	B	-ZL	MB
Basic P/N	Shell Style	Shell Size and Contact Size	Contacts F - Socket Z - Pin	Keyway N - Stand. W - Alt.	Bayonet Coupling	Access. Code ZL - No Band ZLF - Band	Marine Bronze Finish

SUPER ITS: HARSH ENVIRONMENT

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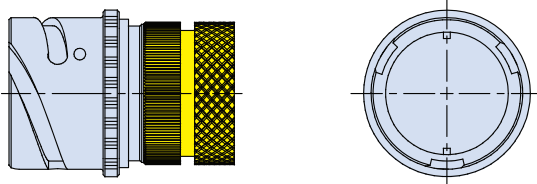
REVERSE-BAYONET

Super ITS-IGE MB Seacrow™ Single-Pole Marine Bronze Connectors

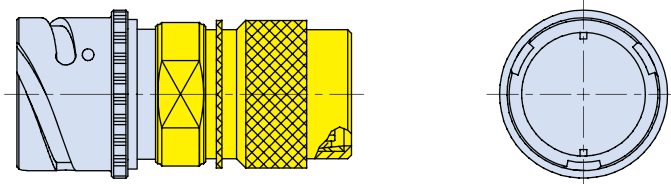


Power Connector and Backshell Combinations

STYLE 1E: IN-LINE RECEPTACLE WITH CRIMP CONTACT AND SHRINK BOOT ADAPTER



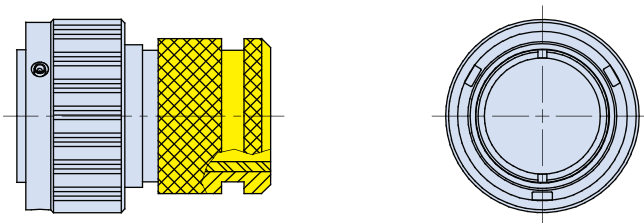
STYLE 1E: IN-LINE RECEPTACLE WITH CRIMP CONTACT AND ROTATABLE COUPLING ADAPTER WITH CABLE SHIELD TERMINATION AND SHRINK BOOT GROOVE



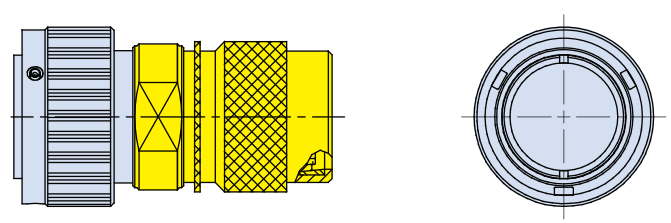
Sample Part Number							
IGE	1E	22H9	Z	N	B	-03	MB
Basic P/N	Shell Style	Shell Size and Contact Size	Contacts F - Socket Z - Pin	Keyway N - Stand. W - Alt.	Bayonet Coupling	Access. Code 03	Marine Bronze Finish

Sample Part Number							
IGE	1E	22H9	Z	N	B	-14	MB
Basic P/N	Shell Style	Shell Size and Contact Size	Contacts F - Socket Z - Pin	Keyway N - Stand. W - Alt.	Bayonet Coupling	Access. Code	Marine Bronze Finish

STYLE 6E: PLUG WITH GROUNDING FINGERS AND SHRINK BOOT ADAPTER



STYLE 6E: STRAIGHT PLUG WITH GROUNDING FINGERS AND ADAPTER WITH CABLE SHIELD BANDING PORCH AND BOOT GROOVE



Sample Part Number							
IGE	6E	22H9	Z	N	B	-03	MB
Basic P/N	Shell Style	Shell Size and Contact Size	Contacts F - Socket Z - Pin	Keyway N - Stand. W - Alt.	Bayonet Coupling	Access. Code	Marine Bronze Finish

Sample Part Number							
IGE	6E	22H9	Z	N	B	-14	MB
Basic P/N	Shell Style	Shell Size and Contact Size	Contacts F - Socket Z - Pin	Keyway N - Stand. W - Alt.	Bayonet Coupling	Access. Code	Marine Bronze Finish

SUPER ITS: HARSH ENVIRONMENT

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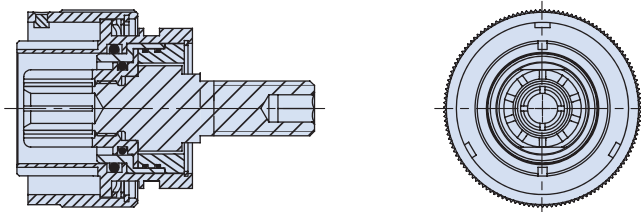


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Single-Pole Marine Bronze Connectors

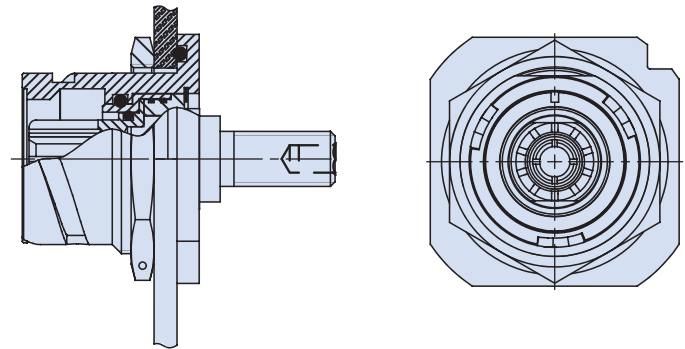


Power Connector and Backshell Combinations

STYLE 6E: STRAIGHT PLUG WITH GROUNDING FINGERS AND INTEGRAL SHRINK BOOT GROOVE



JAM NUT RECEPTACLE WITH THREADED CONTACT



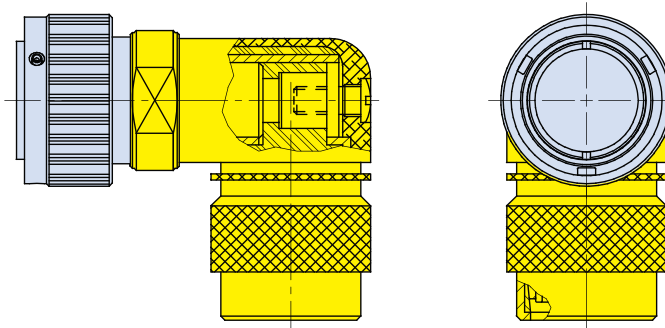
Sample Part Number

IGE	6E	22H9	Z	N	B	-16	MB
Basic P/N	Shell Style	Shell Size and Contact Size	Contacts F - Socket Z - Pin	Keyway N - Stand. W - Alt.	Bayonet Coupling	Access. Code	Marine Bronze Finish

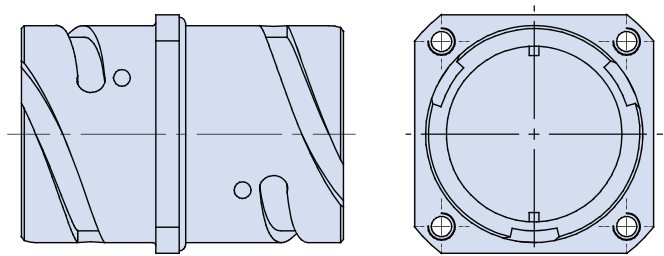
Sample Part Number

IGE	7E	22H9	Z	N	B	-16	MB
Basic P/N	Shell Style	Shell Size and Contact Size	Contacts F - Socket Z - Pin	Keyway N - Stand. W - Alt.	Bayonet Coupling	Access. Code	Marine Bronze Finish

RIGHT ANGLE PLUG WITH GROUNDING FINGERS PLUS ADAPTER WITH ROTATABLE COUPLING, CABLE SHIELD TERMINATION AND SHRINK BOOT GROOVE



BULKHEAD FEED-THROUGH WITH THREADED HOLES OR THROUGH HOLES



9E = Threaded Mounting Holes



9EFP = Through Mounting Holes

Sample Part Number

IGE	8E	22H9	Z	N	B	-14	MB
Basic P/N	Shell Style	Shell Size and Contact Size	Contacts F - Socket Z - Pin	Keyway N - Stand. W - Alt.	Bayonet Coupling	Access. Code	Marine Bronze Finish

Sample Part Number

IGE	9E	22H9	W	X	-B	MB
Basic P/N	Shell Style 9E or 9EFP	Shell Size and Contact Size	Keyway N - Stand. W - Alt.	Contact X = Pin/ Socket	Bayonet Coupling	Marine Bronze Finish

SUPER ITS: HARSH ENVIRONMENT

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REVERSE-BAYONET
Super ITS - RG RadGrip™
Rubber Overmolded Plug Connectors
Product Selection Guide



SUPER ITS - RG RADGRIP™
CONNECTOR OVERVIEW

PAGE A-49



**SEE APPENDIX FOR PANEL CUTOUTS AND MAXIMUM PANEL THICKNESSES,
CONTACT PERFORMANCE RATINGS, CONTACTS, CONNECTOR COVERS AND
ACCESSORIES**



SUPER ITS - RG RADGRIP™
RUBBER OVERMOLDED PLUG CONNECTORS

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SUPER ITS: HARSH ENVIRONMENT

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REVERSE-BAYONET

Super ITS - RG RadGrip Rubber-Covered Plug Connectors

For improved user ergonomics, ease-of-use, and safety.
No electrical hazard during handling.

Better grip, improved durability

Glenair Super ITS-RG Series connector plugs with RadGrip™ rubber coupling nut covers are ideal for harsh environmental field applications such as geophysical exploration in arctic conditions. Super ITS-RG RadGrip™ connectors feature wide, easy-to-grip castellations as well as a raised thumb tab. Built for maximum durability and mechanical protection of plug coupling nuts, Super ITS-RG RadGrip™ is the perfect solution for protection against abusive handling and other forms of mechanical damage. In addition, RadGrip™ facilitates rapid mating and demating of connectors, even when surfaces are slick with oil, dust, water and other fluids. The highly durable rubber compound may be specified in seven different colors for improved connector and cable identification and management.

Colors available: Black, Yellow, Red, Blue, Light Green, Orange and Grey.

Super ITS-RG RadGrip™ material specifications

IAW UNI-CEI 11170 - AFNOR NF-F 16101 - BSS 7239 - ASTM E - 162, ASTM E-662
RadGrip™ covers adhere easily to Aluminum alloy, Stainless steel, and Marine bronze.

- Ergonomic design provides better grip for operator
- IP67 rated (mated condition)
- Compatible with all Series ITS 5015 Type connectors
- High shock, vibration, and chemically resistant
- 200 Plus Insert Arrangements Available with Contact Sizes from #20 to #4/0
- Audible and Visual Coupling Indicators
- Colored materials facilitate connector and cable identification and/or connector phases

SUPER ITS: HARSH ENVIRONMENT

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REVERSE-BAYONET Super ITS - RG RadGrip™ Rubber Overmolded Connectors



How to order



Super ITS - RG RadGrip MIL-DTL-5015 intermountable reverse-bayonet rubber coated connectors and accessories

Super ITS-RG RadGrip connectors feature rubber-coated plug coupling nuts and optional rubber-covered backshells for improved ease-of-coupling and insulation from high current and high-voltage. Super ITS-RG RadGrip connectors are the perfect choice for harsh environments where mating and demating connectors with bulky gloves is difficult.

How To Order											
Sample Part Number:	FR	ITS	G	41	06	RG	20-27	P	Y	B1	F7
Fire Resistant Rubber Compound	FR = Fire resistant elastomer										
Series	ITS = Reverse bayonet										
Grounding Fingers	Available for plugs only; omit for none										
Contact Type	31 = Solder Cup 41 = Crimp										
Shell Styles	See connector shell styles table										
RadGrip Backshell Type and Class	RGG, RRG, RRGp = Environmental; grommet supplied										
Shell Size and Insert Arrangement	See shell size availability table below and insert arrangements in Appendix										
Contact Gender	P = Pin S = Socket										
Polarization	W, X, Y, Z ; refer to polarization (insert rotation) tables										
Contact Options	OMIT = Silver-plated contacts B1 = Connector with gold plated contacts; omit for silver plated contacts										
Material / Finish*	Omit for aluminum / cadmium olive drab F6 = Aluminum / black electrodeposited paint F7 = Aluminum / black zinc nickel F11 = Aluminum / electroless nickel										

SUPER ITS: HARSH ENVIRONMENT

Connector Shell Style	
Code	Description
00	Front panel mount, wall mount receptacle
01	In-line receptacle
030	Rear panel mount, wall mount receptacle with accessory threads
06	Plug connector with accessory threads
08	Plug with right angle adapter

Shell Size Availability	
Shell Style	Available Shell Sizes
00, 01, and 030	14S thru 40
06	14S thru 40
08	18 thru 40
Complete Shell Size Offerings	
105L, 14S, 16S, 16, 18, 20, 22, 24, 28, 32, 36, 40	

Class Code and Shell Style Matrix							
Class Codes	Shell Styles						
	00	01	02	03	030	06	08
RRG	X	X		X	X	X	X
RRGP						X	X
RGG						X	X

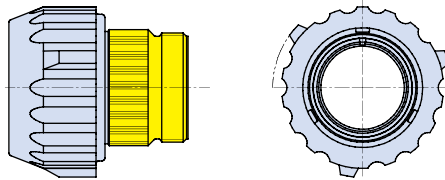
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REVERSE-BAYONET
Super ITS - RG RadGrip™
Rubber Overmolded Connectors
 Plug / Backshell Combinations



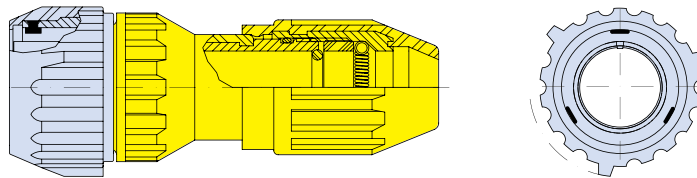
STYLE 06: STRAIGHT PLUG WITH RUBBER COATED COUPLING NUT AND RUBBER COATED, THREADED ADAPTER FOR ATTACHMENT OF ADDITIONAL ACCESSORIES



Sample Part Number

FR	ITS	G	41	06	RGG	20-27	P	Y	B1	F7
Fire - Resistant	Reverse-Bayonet	Ground Fingers	Crimp Contacts	Straight Plug	RadGrip Plus Adapter	Shell Size / Insert Arrangement (see Appendix)	P = Pin S = Socket	Polarization W, X, Y, Z (Omit for Normal)	Contact Option: B1 = Gold-Plated Omit = Silver-Plated	Material / Finish (see table)

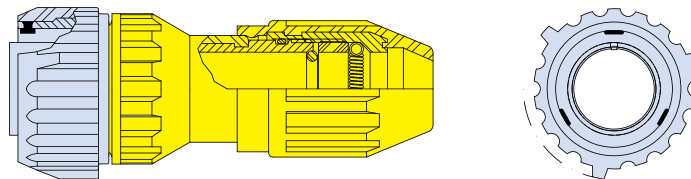
STYLE 06: STRAIGHT PLUG WITH RUBBER COATED COUPLING NUT AND RUBBER COATED CABLE SEALING BACKSHELL WITH SPRING-STYLE EMI/RFI SHIELD TERMINATION FOR USE WITH JACKETED CABLES



Sample Part Number

FR	ITS	G	41	06	RRG	20-27	P	Y	B1	F7
Fire - Resistant	Reverse-Bayonet	Ground Fingers	Crimp Contacts	Straight Plug	RadGrip Plus Cable Sealing	Shell Size / Insert Arrangement (see Appendix)	P = Pin S = Socket	Polarization W, X, Y, Z (Omit for Normal)	Contact Option: B1 = Gold-Plated Omit = Silver-Plated	Material / Finish (see table)

STYLE 06: STRAIGHT PLUG WITH RUBBER COATED COUPLING NUT AND RUBBER COATED CABLE SEALING BACKSHELL WITH SPRING-STYLE EMI/RFI SHIELD TERMINATION FOR USE WITH JACKETED CABLES. USE WITH ITS-RG 030 REAR-PANEL MOUNT RECEPTACLES



*Mates with ITS-RG 030

Sample Part Number

FR	ITS	G	41	06	RRGP	20-27	P	Y	B1	F7
Fire - Resistant	Reverse-Bayonet	Ground Fingers	Crimp Contacts	Straight Plug	RadGrip Plus Cable Sealing*	Shell Size / Insert Arrangement (see Appendix)	P = Pin S = Socket	Polarization W, X, Y, Z (Omit for Normal)	Contact Option: B1 = Gold-Plated Omit = Silver-Plated	Material / Finish (see table)

SUPER ITS: HARSH ENVIRONMENT

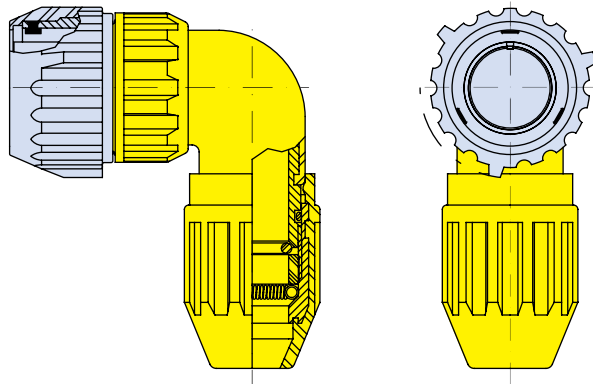
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REVERSE-BAYONET
Super ITS - RG RadGrip™
Rubber Overmolded Connectors
 Plug / Backshell Combinations

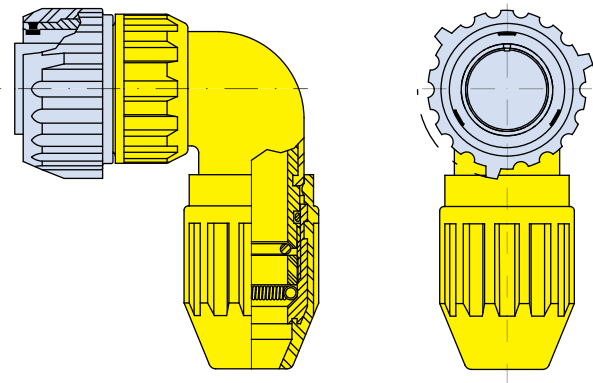


STYLE 08: RIGHT-ANGLE PLUG WITH RUBBER COATED COUPLING NUT AND RUBBER COATED CABLE SEALING BACKSHELL WITH SPRING-STYLE EMI/RFI SHIELD TERMINATION FOR USE WITH JACKETED CABLES



Sample Part Number										
FR	ITS	G	41	08	RRG	20-27	P	Y	B1	F7
Fire - Resistant	Reverse-Bayonet	Ground Fingers	Crimp Contacts	90° Plug	RadGrip Plus Cable Sealing	Shell Size / Insert Arrangement (see Appendix)	P = Pin S = Socket	Polarization W, X, Y, Z (Omit for Normal)	Contact Option: B1 = Gold-Plated Omit = Silver-Plated	Material / Finish (see table)

STYLE 08: RIGHT-ANGLE PLUG WITH RUBBER COATED COUPLING NUT AND RUBBER COATED CABLE SEALING BACKSHELL WITH SPRING-STYLE EMI/RFI SHIELD TERMINATION FOR USE WITH JACKETED CABLES . USE WITH ITS-RG 030 REAR-PANEL MOUNT RECEPTACLES



*Mates with
 ITS-RG 030
 and ITS 03

Sample Part Number										
FR	ITS	G	41	08	RRGP	20-27	P	Y	B1	F7
Fire - Resistant	Reverse-Bayonet	Ground Fingers	Crimp Contacts	90° Plug	RadGrip Plus Cable Sealing*	Shell Size / Insert Arrangement (see Appendix)	P = Pin S = Socket	Polarization W, X, Y, Z (Omit for Normal)	Contact Option: B1 = Gold-Plated Omit = Silver-Plated	Material / Finish (see table)

SUPER ITS: HARSH ENVIRONMENT

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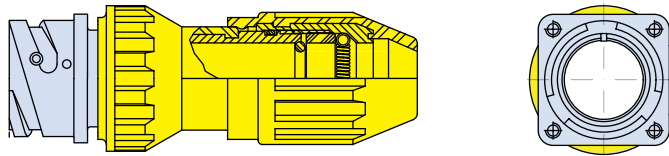


REVERSE-BAYONET Super ITS - RG RadGrip™ Rubber Overmolded Connectors



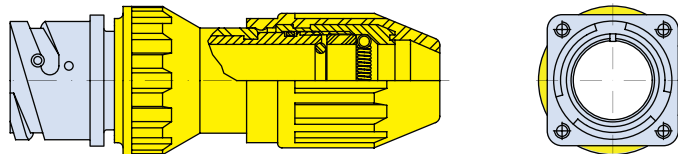
Receptacle / Backshell Combinations

STYLE 00: FRONT PANEL MOUNT, WALL MOUNT RECEPTACLE WITH RUBBER COATED, CABLE SEALING BACKSHELL WITH SPRING-STYLE EMI/RFI SHIELD TERMINATION



Sample Part Number									
FR	ITS	41	00	RRG	20-27	P	Y	B1	F7
Fire - Resistant	Reverse-Bayonet	Crimp Contacts	Front Wall Mount	Environmental with Wire-Sealing Grommet	Shell Size / Insert Arrangement (see Appendix)	P = Pin S = Socket	Polarization W, X, Y, Z (Omit for Normal)	Contact Option: B1 = Gold-Plated Omit = Silver-Plated	Material / Finish (see table)

STYLE 030: REAR PANEL MOUNT, WALL MOUNT RECEPTACLE AND RUBBER COATED CABLE SEALING BACKSHELL WITH SPRING-STYLE EMI/RFI SHIELD TERMINATION

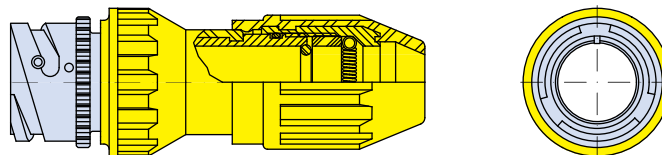


Thread Size
14S thru 24: M4
28 thru 40: M5

Mates with
ITS 06 RRG
and
ITS 08 RRG

Sample Part Number									
FR	ITS	41	030	RRG	20-27	P	Y	B1	F7
Fire - Resistant	Reverse-Bayonet	Crimp Contacts	Rear Panel Mount	Environmental with Wire-Sealing Grommet	Shell Size / Insert Arrangement (see Appendix)	P = Pin S = Socket	Polarization W, X, Y, Z (Omit for Normal)	Contact Option: B1 = Gold-Plated Omit = Silver-Plated	Material / Finish (see table)

STYLE 01: INLINE RECEPTACLE PLUS RUBBER COATED BACKSHELL WITH SPRING-STYLE EMI/RFI SHIELD TERMINATION FOR USE WITH JACKETED CABLES



Sample Part Number									
FR	ITS	41	01	RRG	20-27	P	Y	B1	F7
Fire - Resistant	Reverse-Bayonet	Crimp Contacts	In-Line Receptacle	Environmental with Wire-Sealing Grommet	Shell Size / Insert Arrangement (see Appendix)	P = Pin S = Socket	Polarization W, X, Y, Z (Omit for Normal)	Contact Option: B1 = Gold-Plated Omit = Silver-Plated	Material / Finish (see table)

SUPER ITS: HARSH ENVIRONMENT

A



REVERSE-BAYONET QUICK-DISCONNECT
ITS-NG™ Nuclear-Grade
 Containment Area Class 1E Connectors
 Product Selection Guide



ITS - NG: REVERSE-BAYONET QUICK-DISCONNECT NUCLEAR-GRADE
CONNECTOR OVERVIEW
SHELL STYLE, CLASS, AND ACCESSORY OPTIONS
APPLICATIONS NOTES

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 PAGE A-57



ITS - NG: REVERSE-BAYONET QUICK-DISCONNECT NUCLEAR-GRADE
CONNECTORS AND ADAPTER OPTIONS

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ITS - NG: REVERSE-BAYONET QUICK-DISCONNECT NUCLEAR-GRADE
METAL PROTECTIVE COVERS
DUMMY RECEPTACLE AND GASKETS FOR SQUARE FLANGE RECEPTACLES
WIRE HOLE PLUGS
CABLE CLAMPS AND ADAPTERS

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ITS - NG: REVERSE-BAYONET QUICK-DISCONNECT NUCLEAR-GRADE
CONTACTS AND CRIMP TOOLS

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SUPER ITS: HARSH ENVIRONMENT

A



REVERSE-BAYONET QUICK-DISCONNECT ITS-NG Nuclear-Grade Connectors

Pressure-tight, submersible power and signal connectors for nuclear plant refurbishment and repair applications

Glenair ITS-NG series quick disconnect connectors are designed to meet or exceed severe application requirements for Generation II nuclear power plants and are suitable for equipment retrofit and refurbishment applications in Gen II plants. These industry-standard reverse bayonet quick disconnect connectors offer fast and reliable mating and unmating for demanding plant applications. The ITS-NG series is Glenair's high-performance equivalent of the stainless MIL-DTL-5015 (VG95135) ADVANCED PERFORMANCE connector variant used across Gen II nuclear plant applications. The popular series offers hundreds of crimp-contact power and signal insert arrangements (see Appendix) with silver or gold-plated contacts.

All materials meet cumulative radiation, thermal, seismic, and pressure-induced stress factors for Gen II plant class 1E harsh nuclear environments. Polymeric insert

Discrete connectors, turnkey cable assemblies, plus customer-installable nuclear-grade shrink boots available

materials deliver maximum radiation and temperature resistance, as well as meeting the most recent extended plant-life requirements (activation energies available). SS shells and radiation-resistant organic components are manufactured in accordance with Glenair's NQA-1 10CFR50 Appendix B quality program. Full traceability of materials and processes according to NQA-1 and 10CFR50 Appendix B.



- Fast connect / disconnect reverse-bayonet coupling
- Stainless steel shells, bodies, and signature high-performance rubbers and epoxy
- Radiation, chemical and moisture-resistant inserts and replaceable O-rings—aging life 60 years
- Performance tested for long term temperature, radiation, and seismic stress factors
- Ideally suited for power generation monitoring, valve control devices, sensors, and other electronic equipment in Generation II plant Class 1E harsh nuclear / safety-related applications



SUPER ITS: HARSH ENVIRONMENT





REVERSE-BAYONET QUICK-DISCONNECT ITS-NG™ Nuclear-Grade Containment Area Class 1E Connectors Shell Style, Class, and Accessory Options



Receptacles

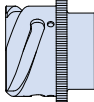
ITS 00

Front Panel Mount,
Wall Mount Receptacle



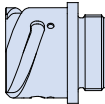
ITS 01

In Line Receptacle



ITS 030

Rear Panel Mount,
Wall Mount Receptacle



Class Types

Environmental Backshells with
Wire Sealing Grommet

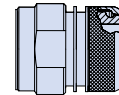
R

Environmental Adapter with
Wire Sealing Grommet



SP

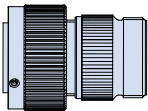
Environmental Adapter with
EMI/RFI Cable Shield
Termination, Shrink Boot Groove
and Wire Sealing Grommet



Plugs

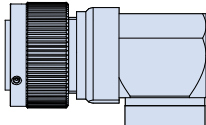
ITS 06

ITS Plug



ITS 08

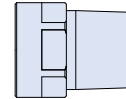
ITS 90° Plug



Backshell Accessories

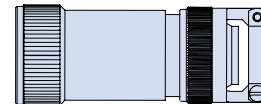
NPT

NPT Adapter



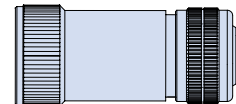
N5

Cable Clamp Adapter for
Jacketed Cables



N5M

Cable Gland Adapter for
Jacketed Cables



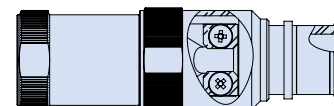
ZL

EMI/RFI Shield Termination
Platform Adapter



ZLS

EMI/RFI Shield Termination
Platform Adapter



SUPER ITS: HARSH ENVIRONMENT

A



REVERSE-BAYONET QUICK-DISCONNECT ITS-NG™ Nuclear-Grade Containment Area Class 1E Connectors



Application Notes / other Glenair Nuclear Connectors

GLENAIR SERIES ITS-NG APPLICATION NOTES

- Glenair Series ITS-NG connectors are based on the MIL-DTL-5015 standard (sharing the same broad range of insert arrangements, see Appendix), but feature an improved reverse-bayonet quick-disconnect coupling technology.
- The ITS-NG family of connectors features design enhancements for Gen II plant containment area (Class 1E) / safety-related applications.
- For new interconnect applications in modern-day power plants, Glenair offers our SuperNG or Mighty Mouse NG series connectors (currently undergoing qualification to the latest and most severe LOCA test and long-term durability requirements that also include long term submersion).
- The ITS-NG is considered particularly appropriate for retrofit and refurbishment applications as the 3-point bayonet coupling mechanism reduces mating time—an important consideration in time-sensitive plant refurbishment work. Positive locking of the three stainless steel pins provides reliable resistance to vibration and shock, and prevents connector de-coupling in severe vibration applications.
- Both plug and receptacle connector configurations are configured with dynamic peripheral seals for environmental sealing.
- Glenair ITS-NG connectors share the same insert arrangements, shell dimensions, supported contacts, and electrical performance ratings as MIL-DTL-5015 and VG 95234 connectors and are fully intermateable with other brands of Gen II rated VG standard reverse-bayonet and quarter-turn 5015 nuclear connectors.
- Glenair ITS-NG connectors are also well-suited for use in applications where electromagnetic compatibility is a requirement. A complete range of EMI shield termination accessories is available for both overall as well as individual wire shields.

Materials and Finishes	
Shells, Coupling Nuts	316 Stainless Steel, Passivated
Contacts	Copper alloy, Silver or Gold Plated
Hoods (Socket contacts)	Copper Alloy, Nickel Plated
Pencil Clip (Socket contacts)	Stainless Steel
Wave Spring	Stainless Steel
Grounding Finger	Beryllium Copper
Inserts, O-rings	Radiation-resistant EPDM



SUPER ITS: HARSH ENVIRONMENT

ALSO AVAILABLE: GLENAIR SIGNATURE HIGH-PERFORMANCE NUCLEAR-GRADE CONNECTORS FOR NEW APPLICATIONS



SUPER NG
DOUBLE PERIPHERAL SEAL QUICK-CONNECT SERIES FOR STRINGENT CLASS 1E CONTAINMENT AREA APPLICATIONS



MIGHTY MOUSE NG
ULTRAMINIATURE HIGH-PRESSURE QUICK-CONNECT FOR NEW PLANT CLASS 1E CONTAINMENT AREA APPLICATIONS

Visit GLENAIR.COM/NUCLEAR-GRADE-CONNECTORS-AND-ACCESSORIES for specifications and how-to-order information

A



REVERSE-BAYONET QUICK-DISCONNECT ITS-NG™ Nuclear-Grade Containment Area Class 1E Connectors



How to Order



ITS-NG reverse-bayonet crimp removable contact connector

ITS NG stainless steel connectors are ideally suited for existing plant refurbishment. The reverse-bayonet design ensures operation under high shock and vibration, while offering IP67 sealing. Connectors are available with silver (standard) or gold plated crimp, solder cup, or PC tail contacts.

How To Order	
SAMPLE PART NUMBER	NGITS G 41 06 SP 18-10 S Y B1 N54C FK1
Series	NGITS = Nuclear grade connectors
Grounding Fingers	G = Plug grounding fingers (plug only)
Contact Type	31 = Solder 41 = Crimp
Shell Style	See shell styles table
Class	See class table
Mounting Holes	FP = Through-holes; omit for threaded holes Option only required for wall mount shell style 030
Shell Size/Insert Arrangement	IAW MIL-DTL-5015, see Appendix
Contact Gender	P = Pin S = Socket
Polarization	W, X, Y, Z; refer to polarization (insert rotation) tables in Appendix of this catalog
Contact Options	See contact options table
Accessory Code	N0 = No accessory; see accessory options table and reference shell style/accessory code matrix table for availability
Material / Finish	FK1 = Material AISI 316L Stainless Steel, Passivated

SUPER ITS: HARSH ENVIRONMENT

Shell Style / Environmental Class Matrix			
Shell Style	Classes		
	R	SP	GS
NGITS 00	✓	✓	
NGITS 01	✓	✓	
NGITS 030	✓	✓	
NGITS 08	✓	✓	✓

Shell Style / Accessory Matrix			
Shell Style	Classes		
	R	SP	GS
NGITS 00	✓	✓	
NGITS 01	✓	✓	
NGITS 030	✓	✓	
NGITS 08	✓	✓	✓

Mounting Hole Diameter		
Shell Size	RPM Metric Thread Class 6H	FPM and RPM Thru-Hole Diameter +0.1 (0.004) (0) 0.000
10 SL	M4	3.2 (0.13)
14 S	M4	3.2 (0.13)
16 S	M4	3.2 (0.13)
16	M4	3.2 (0.13)
18	M4	3.2 (0.13)
20	M4	3.2 (0.13)
22	M4	3.2 (0.13)
24	M4	3.7 (0.15)
28	M5	3.7 (0.15)
32	M5	4.3 (0.17)
36	M5	4.3 (0.17)
40	M5	4.3 (0.17)

NOTES

- Shell styles 03, 030 and 038 may be ordered with threaded mounting hole or through-hole mounting. See Mounting Hole Dimensions table for details
- Backshell is included when no Accessory Code Option Designator is omitted.
- BR accessories require additional ordering information; see BR Code Table for minimum and maximum cable diameters and code
- PG accessories require additional ordering information; see PG Code Table for thread options
- FM accessories require additional ordering information; see FM Code Table for thread options

A



REVERSE-BAYONET QUICK-DISCONNECT ITS-NG™ Nuclear-Grade Containment Area Class 1E Connectors Part Number Options and Dimensions



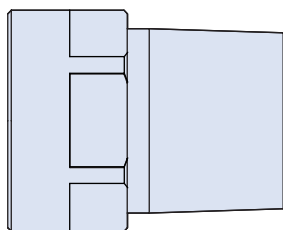
Shell Style Options	
Sym	Description
00	Front panel mount, wall mount receptacle
01	Inline cable receptacle
030 ¹	Rear panel mount, wall mount receptacle and accessory threads
06	Inline cable plug connector

Class Options	
Sym	Description
R ²	Environmental backshell with wire sealing grommet
SP	Environmental connector and EMI/RFI backshell with wire sealing grommet and cable shield termination

Contact Options	
Sym	Description
B0	Connector without contacts
B1	Connector with gold plated contacts
Omit for standard version (silver plated)	

Accessory Options	
Sym	Description
N5	Threaded Adapter and Cable Clamp for Jacketed Cables
N5M	Threaded Adapter and Cable Gland for Jacketed Cables
ZLS	Threaded Adapter and Cable Gland for Shielded Cables
NPT	Threaded Adapter and Cable Gland for Shielded Cables

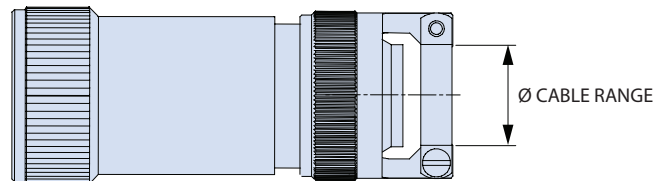
NPT ADAPTER



Shell Size	Cable Gland Type
10 SL	1/2 NPT
14 S	1/2 NPT
16 S	1/2 NPT
16	1/2 NPT
18	1/2 NPT
20	3/4 NPT

Shell Size	Cable Gland Type
22	3/4 NPT
24	1 NPT
28	1 NPT
32	1 - 1/2 NPT
36	1 - 1/2 NPT
40	1 - 1/2 NPT

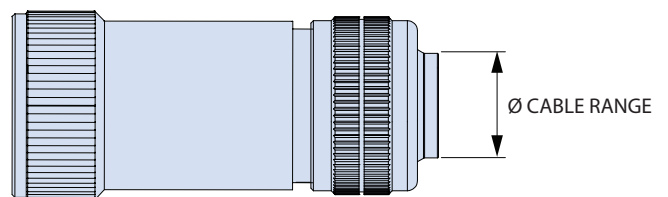
N5 CABLE CLAMP AND EXTENDED BACKSHELL



Shell Size	Ø Cable Range	
	Min.	Max
N5-4C	2.4 (0.09)	7.9 (0.31)
N5-6C	5.8 (0.23)	11.1 (0.44)
N5-8C	8.0 (0.31)	13.4 (0.53)
N5-10C	9.6 (0.38)	15.8 (0.62)
N5-12C	11.3 (0.44)	19.0 (0.75)
N5-16C	15.5 (0.61)	23.8 (0.94)
N5-20C	23.4 (0.92)	31.7 (1.25)
N5-24C	23.4 (0.92)	35.0 (1.38)
N5-28C	29.9 (1.18)	41.2 (1.62)

Shell Size	Cable Clamp Type
10 SL	4C
14 S	6C, 4C
16 S	8C, 6C, 4C
16	8C, 6C, 4C
18	10C, 8C, 6C, 4C
20	12C, 10C, 8C, 6C, 4C
22	12C, 10C, 8C, 6C, 4C
24	16C, 12C, 10C, 8C, 6C
28	16C, 12C, 10C, 8C, 6C
32	20C, 16C, 12C, 10C, 8C
36	24C, 20C, 16C, 12C, 10 C
40	28C, 24C, 20C, 16C, 12 C

N5M CABLE GLAND AND EXTENDED BACKSHELL



Shell Size	Ø Cable Range	
	Min.	Max
N5M-4C	2.4 (0.09)	7.9 (0.31)
N5M-6C	5.8 (0.23)	11.1 (0.44)
N5M-8C	8.0 (0.31)	13.4 (0.53)
N5M-10C	9.6 (0.38)	15.8 (0.62)
N5M-12C	11.3 (0.44)	19.0 (0.75)
N5M-16C	15.5 (0.61)	23.8 (0.94)
N5M-20C	23.4 (0.92)	31.7 (1.25)
N5M-24C	23.4 (0.92)	35.0 (1.38)
N5M-28C	29.9 (1.18)	41.2 (1.62)

Shell Size	Cable Gland Type
10 SL	4C
14 S	6C, 4C
16 S	8C, 6C, 4C
16	8C, 6C, 4C
18	10C, 8C, 6C, 4C
20	12C, 10C, 8C, 6C, 4C
22	12C, 10C, 8C, 6C, 4C
24	16C, 12C, 10C, 8C, 6C
28	16C, 12C, 10C, 8C, 6C
32	20C, 16C, 12C, 10C, 8C
36	24C, 20C, 16C, 12C, 10 C
40	28C, 24C, 20C, 16C, 12 C

SUPER ITS: HARSH ENVIRONMENT

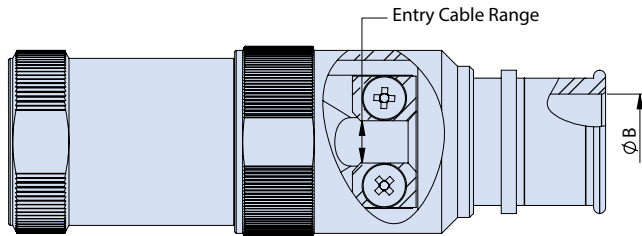
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REVERSE-BAYONET QUICK-DISCONNECT ITS-NG™ Nuclear-Grade Containment Area Class 1E Connectors Part Number Options

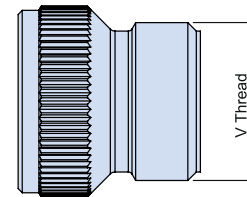


ZLS EMI/RFI BANDING PLATFORM ADAPTER WITH INTERNAL STRAIN RELIEF



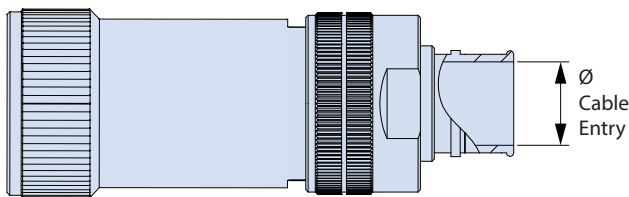
Shell Size	Entry Cable Range*	Entry Size
10 SL	01	01/02
14S	02	02/03
16S	03	5/6/2007
16	03	5/6/2007
18	04	5/6/2007
20	05	08/09/10/11
22	05	08/09/10/11
24	06	11/12/2013
28	06	11/12/2013
32	07	15/16/17
36	08	17/18/19
40	09	20/21/22

CLASS R BACKSHELL



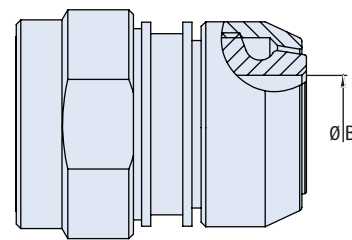
Shell Size	V Thread
10 SL	0.6250 - 24UNEF 2A
14 S	0.7500 - 20UNEF 2A
16 S	0.875 - 20UNEF 2A
16	0.875 - 20UNEF 2A
18	1.0000 - 20UNEF 2A
20	1.1875 - 18UNEF 2A
22	1.1875 - 18UNEF 2A
24	1.4375 - 18 UNEF 2A
28	1.4375 - 18UNEF 2A
32	1.7500-18UNS 2A
36	2.0000 - 18UNS 2A
40	2.2500 - 16UN 2A

ZL EMI/RFI BANDING PLATFORM ADAPTER



Dimensions		Cable Entry		Cable Entry	
Shell Size	Entry Size*	Entry Size	ØB	Entry Size	ØB
10 SL	1-6	ZL01	3.2 (0.13)	ZL13	22.2 (0.87)
14 S	2-8	ZL02	4.8 (0.19)	ZL14	23.8 (0.94)
16 S	3-10	ZL03	6.4 (0.25)	ZL15	25.4 (1.00)
16	3-10	ZL04	7.9 (0.31)	ZL16	27 (1.06)
18	4-12	ZL05	9.5 (0.37)	ZL17	28.6 (1.13)
20	4-14	ZL06	11.1 (0.44)	ZL18	31.8 (1.25)
22	6-16	ZL07	12.7 (0.50)	ZL19	34.9 (1.37)
24	6-17	ZL08	14.3 (0.56)	ZL20	38.1 (1.50)
28	8-19	ZL09	15.9 (0.63)	ZL21	41.3 (1.63)
32	8-22	ZL10	17.5 (0.69)	ZL22	44.5 (1.75)
36	10-23	ZL11	19.1 (0.75)	ZL23	47.6 (1.87)
40	10-24	ZL12	20.6 (0.81)	ZL24	50.8 (2.00)

CLASS SP BACKSHELL



Shell Size	Ø B
10 SL	8.6 (0.34)
14 S	10.7 (0.42)
16 S	13.9 (0.55)
16	13.9 (0.55)
18	15.0 (0.59)
20	18.8 (0.74)
22	22.0 (0.87)
24	25.0 (0.98)
28	28.4 (1.12)
32	34.0 (1.34)
36	40.5 (1.59)
40	49.0 (1.93)

* Consult factory for additional entry sizes.

SUPER ITS: HARSH ENVIRONMENT

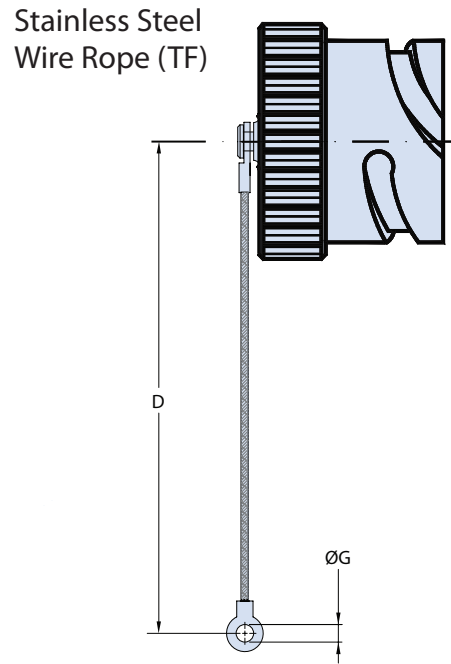
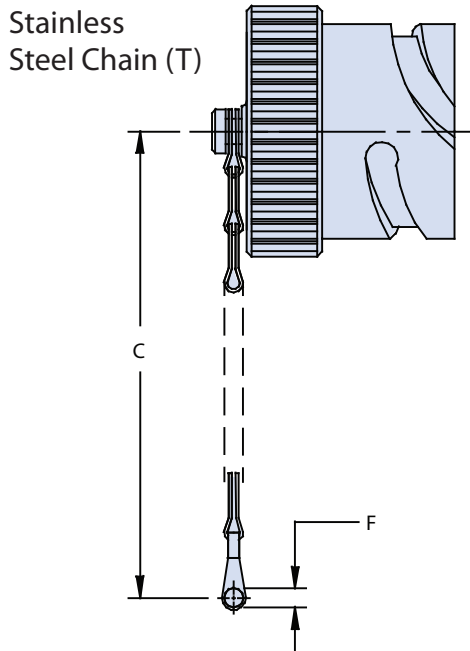
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REVERSE-BAYONET QUICK-DISCONNECT ITS-NG™ Nuclear-Grade Containment Area Class 1E Connectors Accessories



PLUG (06) COVER



Sample Part Number

NGITB	06	T	-18	FK1
Series	Plug Cover	Lanyard Type	Shell Size Desig.	Material and Finish

Lanyard Type

Code	Description
T	Stainless Steel Chain
TF	Stainless Steel Wire Rope

Lanyard and Standard Ring Eyelet Diameter dimensions

Shell Size Desig.	SST Chain (Lanyard Type T)		SST Wire Rope (Lanyard Type TF)	
	Std Length (C)	Ring Eyelet Dia (F)	Std Length (D)	Ring Eyelet Dia (G)
-14S	123 (4.84)	4.3 (0.17)	193 (7.60)	4.3 (0.17)
-16S	123 (4.84)	4.3 (0.17)	193 (7.60)	4.3 (0.17)
-18	123 (4.84)	4.3 (0.17)	193 (7.60)	4.3 (0.17)
-20	138 (5.43)	4.8 (0.19)	193 (7.60)	4.3 (0.17)
-22	138 (5.43)	4.8 (0.19)	193 (7.60)	4.3 (0.17)
-24	138 (5.43)	4.8 (0.19)	193 (7.60)	4.3 (0.17)
-28	206 (8.11)	4.8 (0.19)	193 (7.60)	5.3 (0.21)
-32	206 (8.11)	5.6 (0.22)	193 (7.60)	5.3 (0.21)
-36	206 (8.11)	5.6 (0.22)	193 (7.60)	5.3 (0.21)
-40	206 (8.11)	5.6 (0.22)	193 (7.60)	5.3 (0.21)

Material and Finish

Code	Material/Finish
FK1	Stainless Steel

SUPER ITS: HARSH ENVIRONMENT

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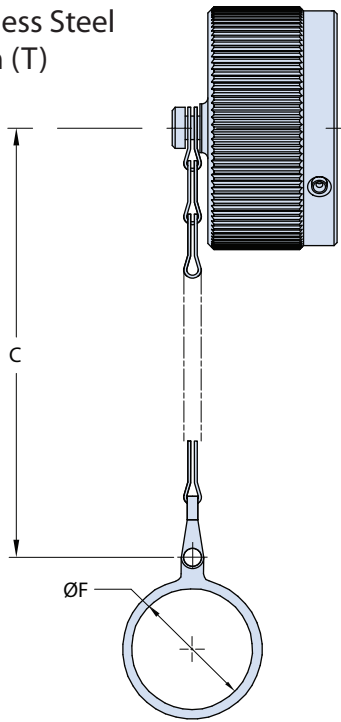


REVERSE-BAYONET QUICK-DISCONNECT ITS-NG™ Nuclear-Grade Containment Area Class 1E Connectors Accessories

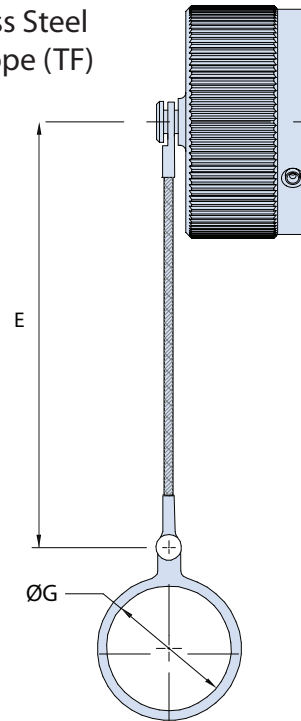


JAM-NUT (07) RECEPTACLE COVER

Stainless Steel Chain (T)



Stainless Steel Wire Rope (TF)



Sample Part Number

NGITB	07	T	-18	FK1
Series	Basic P/N	Lanyard Type	Shell Size	Material and Finish

Lanyard Type

Code	Description
T	Stainless Steel Chain
TF	Stainless Steel Wire Rope

Lanyard and Ring Attachment Dimensions

Shell Size	SST Chain (Lanyard Type T)		SST Wire Rope (Lanyard Type TF)	
	Std Length (C)	Ring Eyelet Dia (F)	Std Length (E)	Ring Eyelet Dia (G)
14S	4.764 (121)	1.142 (29.00)	8.189 (208)	1.142 (29.00)
16S	4.764 (121)	1.266 (32.15)	8.189 (208)	1.266 (32.15)
18	5.394 (137)	1.392 (35.35)	8.189 (208)	1.392 (35.35)
20	5.433 (138)	1.516 (38.50)	8.189 (208)	1.516 (38.50)
22	5.433 (138)	1.614 (41.00)	8.189 (208)	1.614 (41.00)
24	5.433 (138)	1.760 (44.70)*	8.189 (208)	1.772 (45.00)*
28	8.701 (221)	2.016 (51.20)*	8.189 (208)	2.016 (51.20)*
32	8.701 (221)	2.264 (57.50)*	8.189 (208)	2.264 (57.50)*
36	8.701 (221)	2.512 (63.80)*	8.189 (208)	2.512 (63.80)*
40	8.701 (221)	2.764 (70.20)*	8.189 (208)	2.764 (70.20)*

Material and Finish

Code	Material / Finish
FK1	Stainless Steel

SUPER ITS: HARSH ENVIRONMENT

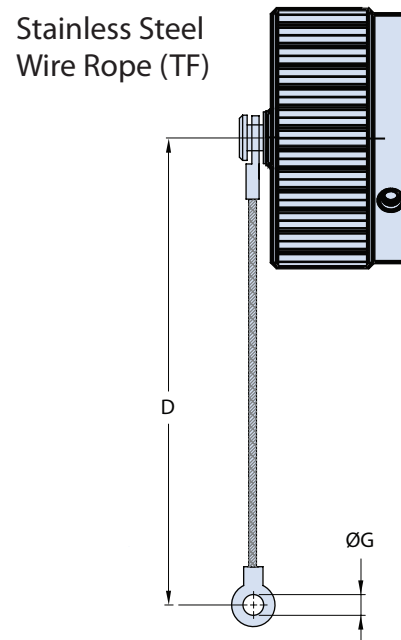
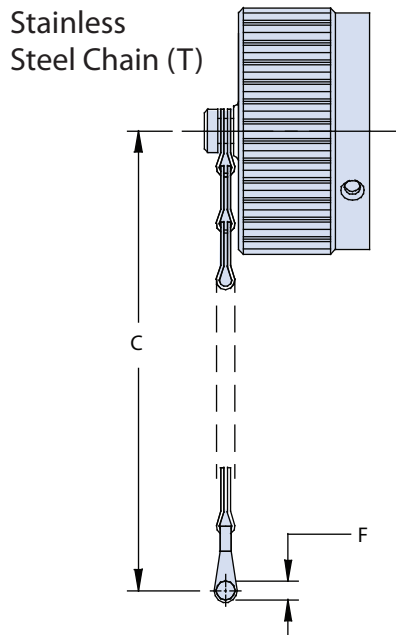
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REVERSE-BAYONET QUICK-DISCONNECT
ITS-NG™ Nuclear-Grade
Containment Area Class 1E Connectors
Accessories



WALL MOUNT (02) RECEPTACLE COVER



Sample Part Number				
NGITB	02	T	-18	FK1
Series	Shell Style Cover Type	Lanyard Type	Shell Size	Material and Finish

Lanyard Type	
Code	Description
T	Stainless Steel Chain
TF	Stainless Steel Wire Rope

Lanyard and Ring Attachment Dimensions				
Shell Size Desig.	SST Chain (Lanyard Type T)		SST Wire Rope (Lanyard Type TF)	
	Std Length (C)	Ring Eyelet Dia (F)	Std Length (D)	Ring Eyelet Dia (G)
-14S	108	.169 (4.3)	7.598 (193)	.169 (4.3)
-16S	108	.169 (4.3)	7.598 (193)	.169 (4.3)
-18	123	.169 (4.3)	7.598 (193)	.169 (4.3)
-20	123	.169 (4.3)	7.598 (193)	.169 (4.3)
-22	123	.169 (4.3)	7.598 (193)	.169 (4.3)
-24	123	.169 (4.3)	7.598 (193)	.169 (4.3)
-28	206	.220 (5.6)	7.598 (193)	.209 (5.3)
-32	206	.220 (5.6)	7.598 (193)	.209 (5.3)
-36	206	.220 (5.6)	7.598 (193)	.209 (5.3)
-40	206	.220 (5.6)	7.598 (193)	.209 (5.3)

Material and Finish	
Code	Material / Finish
FK1	Stainless Steel

SUPER ITS: HARSH ENVIRONMENT





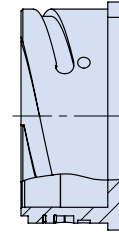
REVERSE-BAYONET QUICK-DISCONNECT ITS-NG™ Nuclear-Grade Containment Area Class 1E Connectors



Dummy Receptacles and Panel Mount Gasket

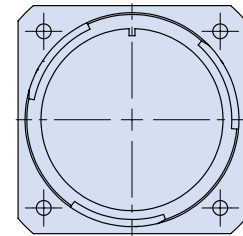
DUMMY RECEPTACLES

How To Order					
Sample Part Number	NGITB	050	FP	-32	FK1
Product Series	NGITB = Nuclear-grade Shell without Stainless Steel Studs				
Connector Shell Style	050 = Dummy Receptacle				
Mounting Holes	FP for Through Omit for Threaded				
Shell Size Designator	See Table below				
Material/Finish	FK1 = Material AISI 316L Stainless Steel, Passivated				



Shell Size & Dimensions		
Shell Size	T Threaded Holes	ØT Thru-Holes +0.2 0
10 SL	M4	3.2 (0.13)
14 S	M4	3.2 (0.13)
16 S	M4	3.2 (0.13)
16	M4	3.2 (0.13)
18	M4	3.2 (0.13)
20	M4	3.2 (0.13)

Shell Size & Dimensions		
Shell Size	T Threaded Holes	ØT Thru-Holes +0.2 0
22	M4	3.2 (0.13)
24	M4	3.7 (0.15)
28	M5	3.7 (0.15)
32	M5	4.3 (0.17)
36	M5	4.3 (0.17)
40	M5	4.3 (0.17)

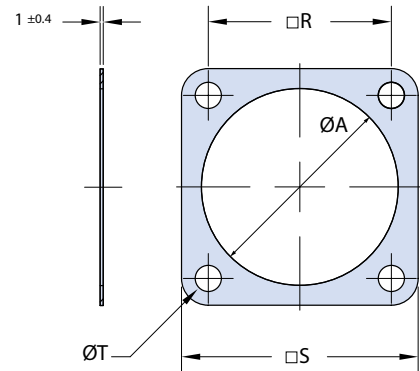


SUPER ITS: HARSH ENVIRONMENT

PANEL MOUNT RECEPTACLE GASKET

How To Order			
Sample Part Number	NGIT	40450	-XX
Product Series	NGIT = Nuclear-Grade Reverse Bayonet Coupling		
Basic Part Number	40450 = Front 40460 = Rear		
Shell Size	See Table Below		

Shell Size	Ø A +0.3		□ R ±0.2	□ S ±0.5	Ø T +0.5
	Front Mount	Rear Mount			
10SL	15.7 (0.62)	18.2 (0.72)	18.2 (0.72)	25.4 (1.00)	4.2 (0.17)
14S	22.1 (0.87)	24.6 (0.97)	23.0 (0.91)	30.0 (1.18)	4.2 (0.17)
16S - 16	25.3 (1.00)	27.4 (1.08)	24.6 (0.97)	32.5 (1.28)	4.2 (0.17)
18	28.4 (1.12)	30.8 (1.21)	27.0 (1.06)	35.0 (1.38)	4.2 (0.17)
20	31.6 (1.24)	34.2 (1.35)	29.4 (1.16)	38.0 (1.50)	4.2 (0.17)
22	34.8 (1.37)	37.4 (1.47)	31.8 (1.25)	41.0 (1.61)	4.2 (0.17)
24	38.0 (1.50)	40.9 (1.61)	34.9 (1.37)	44.5 (1.75)	4.2 (0.17)
28	44.3 (1.74)	46.7 (1.84)	39.7 (1.56)	50.8 (2.00)	5.1 (0.20)
32	50.7 (2.00)	53.4 (2.10)	44.5 (1.75)	57.0 (2.24)	5.1 (0.20)
36	57.0 (2.24)	59.6 (2.35)	49.2 (1.94)	63.5 (2.50)	5.1 (0.20)
40	62.5 (2.46)	65.5 (2.58)	55.5 (2.19)	69.9 (2.75)	5.1 (0.20)



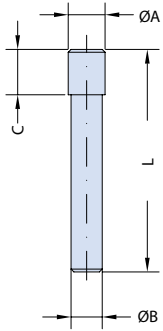
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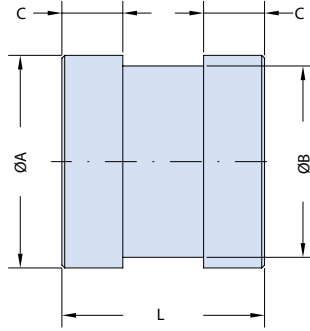
REVERSE-BAYONET QUICK-DISCONNECT ITS-NG™ Nuclear-Grade Containment Area Class 1E Connectors Wire Hole Plugs



WIRE HOLE PLUG FOR INSERTS



NG 10-305045-16



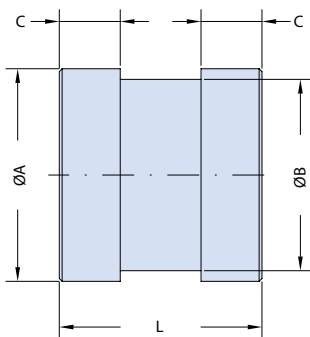
NG 10-101033-13
10-305045-XX

Part Numbers, Contact Sizes & Dimension					
Part Number	Contact Size	Ø A	Ø B	C	L
NG 10 - 305045 - 16	16S, 16	2.6 (0.10)	2.2 (0.09)	3.2 (0.13)	15.7 (0.62)
NG 10 - 101033 - 13	12	4.6 (0.18)	3.7 (0.15)	3.2 (0.13)	11.9 (0.47)
NG 10 - 305045 - 8	8	7.6 (0.30)	6.4 (0.25)	3.1 (0.12)	11.8 (0.46)
NG 10 - 305045 - 4	4	10.9 (0.43)	9.7 (0.38)	3.1 (0.12)	11.8 (0.46)
NG 10 - 305045 - 0	0	15.0 (0.59)	13.5 (0.53)	4.3 (0.17)	14.3 (0.56)
NG 10 - 305045 - 01	0	16.0 (0.63)	14.5 (0.57)	4.3 (0.17)	14.5 (0.57)

NOTES

- Used to fill an insert cavity in order to maintain the environmental seal when a cavity is without contact.
- Material AISI 316L Stainless Steel

WIRE HOLE PLUG FOR GROMMETS



NG 10-101033-XX

Part Numbers, Contact Sizes, Dimensions					
Part Number	Contact Size	Ø A	Ø B	C	L
NG 10 - 101033 - 12	16S - 16	3.7	2.8	3.2	11.9
NG 10 - 101033 - 13	12	4.6	3.7	3.2	11.9
NG 10 - 101033 - 14	8	5.8	5.0	3.2	11.9
NG 10 - 101033 - 15	4	8.5	7.6	3.2	11.9
NG 10 - 101033 - 16	0	13.5	12.8	3.2	11.9

NOTES

- Used to fill a grommet cavity in order to maintain the environmental seal when a cavity is without contact.
- Material AISI 316L Stainless Steel

SUPER ITS: HARSH ENVIRONMENT

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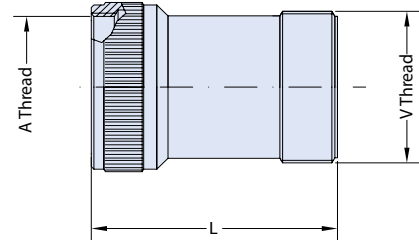


REVERSE-BAYONET QUICK-DISCONNECT ITS-NG™ Nuclear-Grade Containment Area Class 1E Connectors Cable Clamps and Backshells

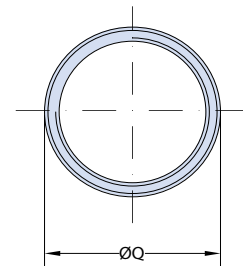


EXTEND ADAPTER FOR PLUG CONNECTORS for Use with Cable Clamp IT3057-XX A/B/C

How To Order			
Sample Part Number	NGIT	101393-323	FK1
Product Series	NGIT = Nuclear-grade Backshell		
Shell Size Designator	See Table below		
Material/Finish	FK1 = Material AISI 316L Stainless Steel, Passivated		



Part Numbers, Shell Size, Thread & Dimensions					
Part Number	Shell Size	A Thread	L Max.	ØQ ±0.2	V Thread
NGIT 101393-123	10 SL	0.6250 - 24UNEF	36.0 (1.42)	20.0 (0.79)	0.6250 - 24UNEF
NGIT 101393-143	14 S	0.7500 - 20UNEF	50.0 (1.97)	23.0 (0.91)	0.7500 - 20UNEF
NGIT 101393-163	16 S	0.8750 - 20UNEF	50.0 (1.97)	25.0 (0.98)	0.8750 - 20UNEF
NGIT 101393-173	16	0.8750 - 20UNEF	54.0 (2.13)	25.0 (0.98)	0.8750 - 20UNEF
NGIT 101393-183	18	1.0000 - 20UNEF	56.0 (2.20)	29.5 (1.16)	1.0000 - 20UNEF
NGIT 101393-203	20	1.1250 - 18UNEF	56.0 (2.20)	32.0 (1.26)	1.1875 - 18UNEF
NGIT 101393-223	22	1.2500 - 18UNEF	56.0 (2.20)	35.0 (1.38)	1.1875 - 18UNEF
NGIT 101393-243	24	1.3750 - 18UNEF	56.0 (2.20)	38.5 (1.52)	1.4375 - 18UNEF
NGIT 101393-283	28	1.6250 - 18UNEF	61.0 (2.40)	45.0 (1.77)	1.4375 - 18UNEF
NGIT 101393-323	32	1.8750 - 16UN	61.0 (2.40)	53.2 (2.09)	1.7500 - 18UNS
NGIT 101393-363	36	2.0625 - 16UN	61.0 (2.40)	57.4 (2.26)	2.0000 - 18UNS
NGIT 101393-403	40	2.3125 - 16UN	61.0 (2.40)	63.2 (2.49)	2.2500 - 16UN

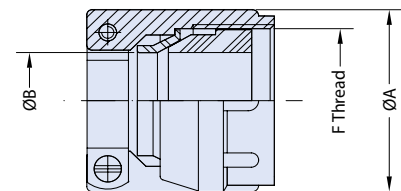


NOTES

To make wiring easier an extender backshell is available for use with cable clamp.

WATERPROOF CABLE CLAMP FOR JACKETED CABLE or Wires Protected by Tubing

How To Order			
Sample Part Number	NGIT	3057-20C	FK1
Product Series	NGIT = Nuclear-grade Backshell		
Shell Size Designator	See Table below		
Material/Finish	FK1 = Material AISI 316L Stainless Steel, Passivated		



NOTES

Gasket made of High Insulation Synthetic rubber.

Part Numbers, Shell Size, Sleeving, Dimensions & Thread					
Part Number	Shell Size	Sleeve to Use	ØB		F Thread
			Min.	Max.	
NGIT 3057- 4C	10 SL	IT 3420 - 4A	2.38 (0.09)	7.93 (0.31)	0.6250 - 24UNEF
NGIT 3057- 6C	14 S	IT 3420 - 4A / 6A	5.84 (0.23)	11.12 (0.44)	0.7500 - 20UNEF
NGIT 3057- 8C	16 S - 16	IT 3420 - 6A / 8A	8.00 (0.31)	13.48 (0.53)	0.8750 - 20UNEF
NGIT 3057-10C	18	IT 3420 - 6A / 10A	9.60 (0.38)	15.87 (0.62)	1.0000 - 20UNEF
NGIT 3057-12C	20 - 22	IT 3420 - 8A / 12A	11.30 (0.44)	19.00 (0.75)	1.1875 - 18UNEF
NGIT 3057-16C	24 - 28	IT 3420 - 8A / 12A / 16A	15.50 (0.61)	23.80 (0.94)	1.4375 - 18UNEF
NGIT 3057-20C	32	IT 3420 - 12A / 16A / 20A	23.40 (0.92)	31.75 (1.25)	1.7500 - 18UNS
NGIT 3057-24C	36	IT 3420 - 16A / 18A / 24A	23.40 (0.92)	35.00 (1.38)	2.0000 - 18UNS
NGIT 3057-28C	40	IT 3420 - 16A / 20A / 28A	29.90 (1.18)	41.25 (1.62)	2.2500 - 16UN

SUPER ITS: HARSH ENVIRONMENT

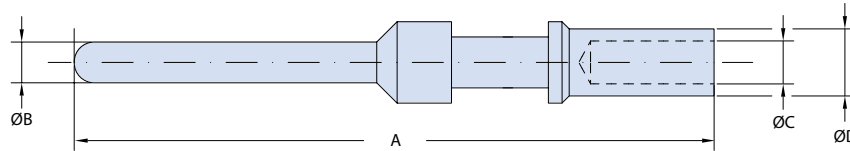
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REVERSE-BAYONET QUICK-DISCONNECT ITS-NG™ Nuclear-Grade Containment Area Class 1E Connectors Pin Contact Dimensions, Size 20 thru 12



PIN CRIMP CONTACTS



Pin Crimp Contact Part Numbers, Size & Dimensions

Part number	Contact Size	A		ØB		ØC		ØD		Wire Size	
		mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm ²	AWG
NG10-375-20	20	24.30	0.957	1.00	0.039	1.30	0.051	1.93	0.076	0.15-0.6	26-20
NG10-40579	18	29.60	1.165	1.40	0.055	1.30	0.051	1.93	0.076	0.15-0.6	26-20
NG10-40553	16S	26.60	1.047	1.58	0.062	1.70	0.067	2.60	0.102	1-1.5	18-16
NG10-40553-12	16S	26.60	1.047	1.58	0.062	1.19	0.047	2.59	0.102	0.6	20
NG10-40553-13*	16S	26.60	1.047	1.58	0.062	1.30	0.051	1.93	0.076	0.15-0.6	26-20
NG10-40553-15*	16S	26.60	1.047	1.58	0.062	1.50	0.059	2.60	0.102	0.75-1.0	18
NG10-40553-20	16S	26.60	1.047	1.58	0.062	2.00	0.079	2.90	0.114	2	14
NG10-40553-26	16S	26.60	1.047	1.58	0.062	2.5	0.098	3.8	0.150	2.5-3.0	12
NG10-40557	16	31.75	1.250	1.58	0.062	1.70	0.067	2.60	0.102	1-1.5	18-16
NG10-40557L	16	33.25	1.309	1.58	0.062	1.70	0.067	2.60	0.102	1-1.5	18-16
NG10-40557-08*	16	31.75	1.250	1.58	0.062	0.85	0.033	1.55	0.061	0.15-0.2	26-24
NG10-40557-12*	16	31.75	1.250	1.58	0.062	1.20	0.047	2.60	0.102	0.6	20
NG10-40557-13*	16	31.75	1.250	1.58	0.062	1.30	0.051	1.93	0.076	0.15-0.6	26-20
NG10-40557-15*	16	31.75	1.250	1.58	0.062	1.50	0.059	2.60	0.102	0.75-1.0	18
NG10-40557-20**	16	31.75	1.250	1.58	0.062	2.00	0.079	2.90	0.114	2	14
NG10-40557-22**	16	31.75	1.250	1.57	0.062	2.2	0.087	3.8	0.150	2.5	/
NG10-40557-22L**	16	33.25	1.309	1.57	0.062	2.2	0.087	3.8	0.150	2.5	/
NG10-40557-26**	16	31.75	1.250	1.58	0.062	2.5	0.098	3.8	0.150	2.5-3.0	12
NG10-40557-32*	16	31.75	1.250	1.58	0.062	0.45	0.018	1.95	0.077	/	32-28
NG10-40561	12	37.65	1.482	2.38	0.094	2.50	0.098	3.90	0.154	2.5-3.0	12
NG10-40561-12*	12	37.65	1.482	2.38	0.094	1.20	0.047	2.60	0.102	0.6	20
NG10-40561-15*	12	37.65	1.482	2.38	0.094	1.50	0.059	2.60	0.102	0.75-1.0	18
NG10-40561-177*	12	37.65	1.482	2.38	0.094	1.77	0.070	2.75	0.108	1.5	18-16
NG10-40561-20*	12	37.65	1.482	2.38	0.094	2.00	0.079	3.90	0.154	2	14
NG10-40561-22*	12	37.65	1.482	2.38	0.094	2.10	0.083	3.90	0.154	2.5	/
NG10-40561-30**	12	37.65	1.482	2.38	0.094	3.00	0.118	4.80	0.189	4-5	/
NG10-40561-30M**	12	37.65	1.482	2.38	0.094	3.30	0.130	4.20	0.165	4	/
NG10-40561-38**	12	37.65	1.482	2.38	0.094	3.60	0.142	4.8	0.268	6	10

Please consult our sales department for other contacts or crimp tool details.

Plating Options	
G117	Gold

NOTES

*These contacts accept smaller wire than standard ones. There may be a sealing problem with grommets. The max current rating is limited by the wire max current rating. See Appendix for details.

** These contacts accept larger wires. The reduced air/creepage resistance may worsen the service rating and there may be difficulties with grommets. The max current rating is limited by the contact max current rating. See Appendix for details.

SUPER ITS: HARSH ENVIRONMENT

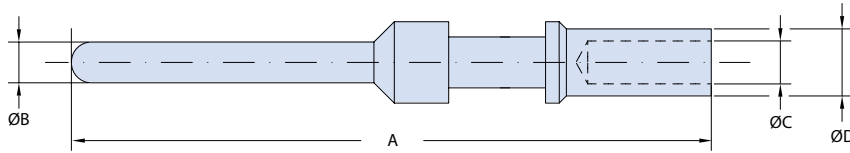
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REVERSE-BAYONET QUICK-DISCONNECT ITS-NG™ Nuclear-Grade Containment Area Class 1E Connectors Pin Contact Dimensions, Size 8 thru 4/0



PIN CRIMP CONTACTS



Pin Crimp Contact Part Numbers, Size & Dimensions

Part number	Contact Size	A		ØB		ØC		ØD		Wire Size	
		mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm ²	AWG
NG 10-40792	8	42.00	1.654	3.60	0.142	4.50	0.177	6.90	0.272	9	8
NG 10-40792-15*	8	42.00	1.654	3.60	0.142	1.50	0.059	3.40	0.134	0.75-1.0	18
NG 10-40792-18*	8	42.00	1.654	3.60	0.142	1.80	0.071	3.80	0.150	1-2	18-14
NG 10-40792-20*	8	42.00	1.654	3.60	0.142	2.00	0.079	3.80	0.150	2	14
NG 10-40792-26*	8	42.00	1.654	3.60	0.142	2.5	0.098	3.8	0.150	2.5-3.0	12
NG 10-40792-30*	8	42.00	1.654	3.60	0.142	3.00	0.118	4.80	0.189	4-5	/
NG 10-40792-38*	8	42.00	1.654	3.60	0.142	3.60	0.142	6.80	0.268	6	10
NG 10-40792-50**	8	42.00	1.654	3.60	0.142	5.00	0.197	6.90	0.272	10	/
NG 10-40792-58**	8	42.00	1.654	3.60	0.142	5.80	0.228	7.80	0.307	13.2	6
NG 10-113474-4P	4	42.00	1.654	5.70	0.224	7.10	0.280	9.53	0.375	22-25	4
NG 10-113474-4P-22*	4	42.00	1.654	5.70	0.224	2.20	0.087	3.80	0.150	2.5	/
NG 10-113474-4P-26*	4	42.00	1.654	5.70	0.224	2.50	0.098	3.80	0.150	2.5-3.0	12
NG 10-113474-4P-30*	4	42.00	1.654	5.70	0.224	3.00	0.118	4.80	0.189	4-5	/
NG 10-113474-4P-38*	4	42.00	1.654	5.70	0.224	3.60	0.142	6.80	0.268	6	10
NG 10-113474-4P-50*	4	42.00	1.654	5.70	0.224	5.00	0.197	7.00	0.276	10	/
NG 10-113474-4P-58*	4	42.00	1.654	5.70	0.224	5.80	0.228	7.80	0.307	13.2	6
NG 10-113474-4P-62*	4	42.00	1.654	5.70	0.224	6.20	0.244	9.53	0.375	16	/
NG 10-113474-1P	0	45.00	1.772	9.05	0.356	11.50	0.453	14.30	0.563	50-60	0
NG 10-113474-1P-107*	0	45.00	1.772	9.05	0.356	10.70	0.421	14.35	0.565	50	/
NG 10-113474-1P-72*	0	45.00	1.772	9.05	0.356	7.15	0.281	9.50	0.374	22-25	4
NG 10-113474-1P-35*	0	45.00	1.772	9.05	0.356	9.00	0.354	14.35	0.565	35	/
NG 10-113474-1P-45*	0	45.00	1.772	9.05	0.356	4.55	0.179	6.80	0.268	9	8
NG 10-113474-1P-50*	0	45.00	1.772	9.05	0.356	5.00	0.197	7.00	0.276	10	/
NG 10-113474-1P-58*	0	45.00	1.772	9.05	0.356	5.80	0.228	7.80	0.307	13.2	6
NG 10-113474-1P-62*	0	45.00	1.772	9.05	0.356	6.20	0.244	9.50	0.374	16	/
NG 10-113474-0P*	4/0	63.00	2.480	12.69	0.500	16.5	0.650	20	0.787	107	4/0
NG 10-113474-0P-78*	4/0	63.00	2.480	12.69	0.500	7.10	0.280	9.53	0.375	22-25	4
NG 10-113474-0P-107*	4/0	63.00	2.480	12.69	0.500	10.7	0.421	14.35	0.565	50	/
NG 10-113474-0P-144*	4/0	63.00	2.480	12.69	0.500	14.5	0.571	20	0.787	70	/

Please consult our sales department for other contacts or crimp tooling details.

Plating Options

G117	Gold
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NOTES

*These contacts accept smaller wire than standard ones. There may be a sealing problem with grommets. The max current rating is limited by the wire max current rating.

** These contacts accept larger wires. The reduced air/creePage Aistance may worsen the service rating and there may be difficulties with grommets. The max current rating is limited by the contact max current rating. See Page A-3.

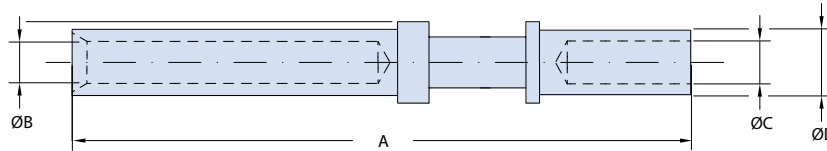


REVERSE-BAYONET QUICK-DISCONNECT ITS-NG™ Nuclear-Grade Containment Area Class 1E Connectors



Socket Contact Dimensions, Size 20 thru 12

SOCKET CRIMP CONTACTS



Socket Crimp Contact Part Numbers, Size & Dimensions

Part number	Contact Size	A	ØB	ØC	ØD	Wire Size	
						mm ²	AWG
NG10-40520LC	20	36.5 (1.44)	1.08 (0.04)	1.3 (0.05)	1.93 (0.08)	0.15-0.6	26-20
NG10-40588	18	34.4 (1.35)	1.46 (0.06)	1.3 (0.05)	1.93 (0.08)	0.15-0.6	26-20
NG10-40552	16S	26.6 (1.05)	1.65 (0.06)	1.7 (0.07)	2.60 (0.10)	1-1.5	18-16
NG10-40552-12*	16S	26.6 (1.05)	1.65 (0.06)	1.2 (0.05)	2.60 (0.10)	0.6	20
NG10-40552-13*	16S	26.6 (1.05)	1.65 (0.06)	1.3 (0.05)	1.93 (0.08)	0.15-0.6	26-20
NG10-40552-15*	16S	26.6 (1.05)	1.65 (0.06)	1.5 (0.06)	2.60 (0.10)	0.75-1	18
NG10-40552-20**	16S	26.6 (1.05)	1.65 (0.06)	2.0 (0.08)	2.90 (0.11)	2	14
NG10-40552-26**	16S	26.6 (1.05)	1.65 (0.06)	2.5 (0.10)	3.80 (0.15)	2.5-3.0	12
NG10-40556	16	36.5 (1.44)	1.65 (0.06)	1.7 (0.07)	2.60 (0.10)	1-1.5	18-16
NG10-40556-08*	16	36.5 (1.44)	1.65 (0.06)	0.85 (0.03)	1.55 (0.06)	0.15-0.2	26-24
NG10-40556-12*	16	36.5 (1.44)	1.65 (0.06)	1.2 (0.05)	2.60 (0.10)	0.6	20
NG10-40556-13*	16	36.5 (1.44)	1.65 (0.06)	1.3 (0.05)	1.93 (0.08)	0.15-0.6	26-20
NG10-40556-15*	16	36.5 (1.44)	1.65 (0.06)	1.45 (0.06)	2.60 (0.10)	0.75-1	18
NG10-40556-20**	16	36.5 (1.44)	1.65 (0.06)	2.0 (0.08)	2.90 (0.11)	2	14
NG10-40556-22**	16	36.5 (1.44)	1.65 (0.06)	2.2 (0.09)	3.8 (0.15)	2.5	/
NG10-40556-26**	16	36.5 (1.44)	1.65 (0.06)	2.5 (0.10)	3.80 (0.15)	2.5-3.0	12
NG10-40556-32*	16	36.5 (1.44)	1.65 (0.06)	0.45 (0.02)	1.95 (0.08)	/	32-28
NG10-40560	12	37.65 (1.48)	2.48 (0.10)	2.5 (0.10)	3.9 (0.15)	2.5-3.0	12
NG10-40560-12*	12	37.65 (1.48)	2.48 (0.10)	1.2 (0.05)	2.6 (0.10)	0.6	20
NG10-40560-15*	12	37.65 (1.48)	2.48 (0.10)	1.45 (0.06)	2.60 (0.10)	0.75-1	18
NG10-40560-177*	12	37.65 (1.48)	2.48 (0.10)	1.77 (0.07)	2.75 (0.11)	1.5	18-16
NG10-40560-20*	12	37.65 (1.48)	2.48 (0.10)	2.0 (0.08)	3.8 (0.15)	2	14
NG10-40560-22*	12	37.65 (1.48)	2.48 (0.10)	2.1 (0.08)	3.8 (0.15)	2.5	/
NG10-40560-30**	12	37.65 (1.48)	2.48 (0.10)	3.00 (0.12)	4.80 (0.19)	4-5	/
NG10-40560-30M**	12	37.65 (1.48)	2.48 (0.10)	3.30 (0.13)	4.20 (0.17)	4	/
NG10-40560-38**	12	37.65 (1.48)	2.48 (0.10)	3.60 (0.14)	4.80 (0.19)	6	10

Please consult our sales department for other contacts or crimp tooling details.

Plating Options	
G117	Gold

NOTES

*These contacts accept smaller wire than standard ones. There may be a sealing problem with grommets. The max current rating is limited by the wire max current rating.

** These contacts accept larger wires. The reduced air/creePage Aistance may worsen the service rating and there may be difficulties with grommets. The max current rating is limited by the contact max current rating. See Page A-3.

SUPER ITS: HARSH ENVIRONMENT

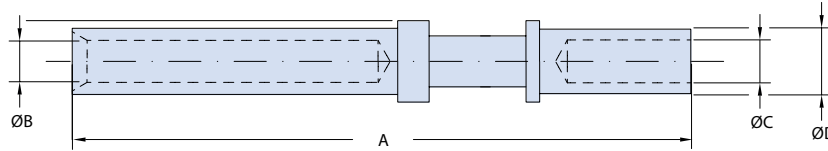
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REVERSE-BAYONET QUICK-DISCONNECT ITS-NG™ Nuclear-Grade Containment Area Class 1E Connectors Socket Contact Dimensions, Size 8 thru 4/0



SOCKET CRIMP CONTACTS



Socket Crimp Contact Part Numbers, Size & Dimensions

Part number	Contact Size	A	ØB	ØC	ØD	Wire Size	
						mm ²	AWG
NG10-40793-1	8	40.49 (1.59)	3.71 (0.15)	4.50 (0.18)	6.76 (0.27)	9	8
NG10-40793-1-15*	8	40.49 (1.59)	3.71 (0.15)	1.45 (0.06)	3.40 (0.13)	0.75-1	18
NG10-40793-1-18*	8	40.49 (1.59)	3.71 (0.15)	1.80 (0.07)	3.81 (0.15)	1-2	18-14
NG10-40793-1-20*	8	40.49 (1.59)	3.61 (0.14)	2.01 (0.08)	3.81 (0.15)	2	14
NG10-40793-1-26*	8	40.49 (1.59)	3.71 (0.15)	2.49 (0.10)	3.81 (0.15)	2.5-3.0	12
NG10-40793-1-30*	8	40.49 (1.59)	3.71 (0.15)	3.00 (0.12)	4.80 (0.19)	4-5	/
NG10-40793-1-38*	8	40.49 (1.59)	3.71 (0.15)	3.61 (0.14)	6.81 (0.27)	6	10
NG10-40793-1-50**	8	40.49 (1.59)	3.71 (0.15)	5.00 (0.20)	6.91 (0.27)	10	/
NG10-40793-1-58**	8	40.49 (1.59)	3.71 (0.15)	5.79 (0.23)	7.80 (0.31)	13.2	6
NG10-113474-4S-1	4	41.00 (1.61)	5.79 (0.23)	7.11 (0.28)	9.52 (0.37)	22-25	4
NG10-113474-4S-1-22*	4	41.00 (1.61)	5.79 (0.23)	2.21 (0.09)	3.81 (0.15)	2.5	/
NG10-113474-4S-1-26*	4	41.00 (1.61)	5.79 (0.23)	2.49 (0.10)	3.81 (0.15)	2.5-3.0	12
NG10-113474-4S-1-30*	4	41.00 (1.61)	5.79 (0.23)	3.00 (0.12)	4.80 (0.19)	4-5	/
NG10-113474-4S-1-38*	4	41.00 (1.61)	5.79 (0.23)	3.61 (0.14)	6.81 (0.27)	6	10
NG10-113474-4S-1-50*	4	41.00 (1.61)	5.79 (0.23)	5.00 (0.20)	7.01 (0.28)	10	/
NG10-113474-4S-1-58*	4	41.00 (1.61)	5.79 (0.23)	5.79 (0.23)	7.80 (0.31)	13.2	6
NG10-113474-4S-1-62*	4	41.00 (1.61)	5.79 (0.23)	6.20 (0.24)	9.50 (0.37)	16	/
NG10-113474-1S	0	44.60 (1.76)	9.17 (0.36)	11.51 (0.45)	14.30 (0.56)	50-60	0
NG10-113474-1S-107*	0	44.60 (1.76)	9.17 (0.36)	10.69 (0.42)	14.35 (0.56)	50	/
NG10-113474-1S-72*	0	44.60 (1.76)	9.17 (0.36)	7.14 (0.28)	9.50 (0.37)	22-25	4
NG10-113474-1S-35*	0	44.60 (1.76)	9.17 (0.36)	8.99 (0.35)	14.35 (0.56)	35	/
NG10-113474-1S-45*	0	44.60 (1.76)	9.17 (0.36)	4.55 (0.18)	6.81 (0.27)	9	8
NG10-113474-1S-50*	0	44.60 (1.76)	9.17 (0.36)	5.00 (0.20)	7.01 (0.28)	10	/
NG10-113474-1S-58*	0	44.60 (1.76)	9.17 (0.36)	5.79 (0.23)	7.80 (0.31)	13.2	6
NG10-113474-1S-62*	0	45.29 (1.78)	9.17 (0.36)	6.20 (0.24)	9.50 (0.37)	16	/
NG10-113474-0S	4/0	65.89 (2.59)	12.70 (0.50)	16.51 (0.65)	19.99 (0.79)	107	4/0
NG10-113474-0S-78*	4/0	65.89 (2.59)	12.70 (0.50)	7.14 (0.28)	9.50 (0.37)	22-25	4
NG10-113474-0S-107*	4/0	65.89 (2.59)	12.70 (0.50)	10.69 (0.42)	14.35 (0.56)	50	/
NG10-113474-0S-144*	4/0	65.89 (2.59)	12.70 (0.50)	14.50 (0.57)	19.99 (0.79)	70	/

Please consult our sales department for other contacts or crimp tooling details.

Plating Options

G117	Gold
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NOTES

*These contacts accept smaller wire than standard ones. There may be a sealing problems with grommets. The max current rating is limited by the wire max current rating.

** These contacts accept larger wires. The reduced air/creePage Aistance may worsen the service rating and there may be difficulties with grommets. The max current rating is limited by the contact max current rating. See Page A-3.

SUPER ITS: HARSH ENVIRONMENT

A



REVERSE-BAYONET QUICK-DISCONNECT ITS-NG™ Nuclear-Grade Containment Area Class 1E Connectors Manual and Pneumatic Pin Crimp Tools



PIN CRIMP CONTACTS - MANUAL AND PNEUMATIC TOOLS

Manual And Pneumatic Tools Part Numbers, Size & Dimensions							
Part Number	Contact Size	WIRE SIZE		MANUAL CRIMP TOOL		PNEUMATIC TOOL TYPE "A"	
		mm ²	AWG	MANUAL TOOL	TURRET	PNEUMATIC TOOL	TURRET
NG10-375-20	20	0,15-0,6	26÷20	M.105001	M.105026	M.105003	M.105026
NG 10-40579	18	0,15÷0,6	26÷20	M.105001	M.105025	M.105003	M.105025
NG 10-40553	16S	1÷1,5	18÷16	M.105007	M.105009	M.105002	M.105009
NG 10-40553-12	16S	0,6	20	M.105007	M.105009	M.105002	M.105009
NG 10-40553-13	16S	0,15÷0,6	26÷20	M.105001	M.105009	M.105003	M.105009
NG 10-40553-15	16S	0,75-1,0	18	M.105007	M.105009	M.105002	M.105009
NG 10-40553-20	16S	1-2	14	M.105007	M.105009	M.105002	M.105009
NG 10-40553-26	16S	2,5-3,0	12	M.105007	M.105009	M.105002	M.105009
NG 10-40557	16	1÷1,5	18÷16	M.105007	M.105009	M.105002	M.105012
NG 10-40557L	16	1÷1,5	18÷16	M.105007	M.105012	M.105002	M.105009
NG 10-40557-08	16	0,15÷0,2	26÷24	M.105001	M.105009	M.105003	M.105009
NG 10-40557-12	16	0,6	20	M.105007	M.105009	M.105003	M.105009
NG 10-40557-13	16	0,15÷0,6	26÷20	M.105001	M.105009	M.105003	M.105009
NG 10-40557-15	16	0,75-1,0	18	M.105007	M.105009	M.105002	M.105009
NG 10-40557-20	16	1-2	14	M.105007	M.105009	M.105002	M.105009
NG 10-40557-22	16	2,5	/	M.105007	M.105009	M.105002	M.105009
NG 10-40557-22L	16	2,5	/	M.105007	M.105012	M.105002	M.105012
NG 10-40557-26	16	2,5-3,0	12	M.105007	M.105009	M.105002	M.105009
NG 10-40557-32	16	/	32÷28	M.105007	M.105009	M.105003	M.105009
NG 10-40561	12	2,5-3,0	12	M.105007	M.105009	M.105002	M.105009
NG 10-40561-12	12	0,6	20	M.105007	M.105009	M.105003	M.105009
NG 10-40561-15	12	0,75-1,0	18	M.105007	M.105009	M.105002	M.105009
NG 10-40561-177	12	1,5	18-16	M.105007	M.105009	M.105002	M.105009
NG 10-40561-20	12	2	14	M.105007	M.105009	M.105002	M.105009
NG 10-40561-22	12	2,5	/	M.105007	M.105009	M.105002	M.105009
NG 10-40561-30	12	4-5	/	M.105007	M.105009	M.105002	M.105009
NG 10-40561-30M	12	4	/	M.105007	M.105009	M.105002	M.105009
NG 10-40561-38	12	6	10	M.105007	M.105009	M.105002	M.105009

Please consult our sales department for other contacts or crimp tooling details.



Manual Crimp Tool



Manual Crimp Tool Turret



Pneumatic Crimp Tool Type A



Pneumatic Crimp Tool Type A Turret

SUPER ITS: HARSH ENVIRONMENT

A



REVERSE-BAYONET QUICK-DISCONNECT ITS-NG™ Nuclear-Grade Containment Area Class 1E Connectors Manual and Pneumatic Pin Crimp Tools

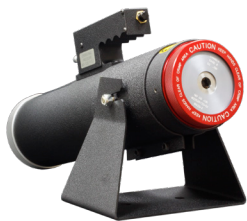


PIN CRIMP CONTACTS - MANUAL AND PNEUMATIC TOOLS

Manual And Pneumatic Tools Part Numbers, Size & Dimensions										
Part Number	Contact Size	WIRE SIZE		MANUAL CRIMP TOOL		PNEUMATIC TOOL TYPE "B"			OLEODINAMIC TOOL	
		mm ²	AWG	MANUAL TOOL	TURRET	PNEUMATIC TOOL	DIE	LOCATOR	OLEODINAMIC TOOL	DIE
NG 10-40792	8	9	8	/	/	M.112000	M.112001	M.112309	M.112004	M.112005
NG 10-40792-15	8	0,75-1,0	18	M.105028	M.104002	/	/	/	/	/
NG 10-40792-18	8	1÷2	18÷14	M.105028	M.104002	/	/	/	/	/
NG 10-40792-20	8	2	14	M.105028	M.104002	/	/	/	/	/
NG 10-40792-26	8	2,5-3,0	12	M.105028	M.104002	/	/	/	/	/
NG 10-40792-30	8	4-5	/	M.105028	M.104002	/	/	/	M.112004	M.112008
NG 10-40792-38	8	6	10	/	/	M.112000	M.112001	M.112309-1	M.112004	M.112005
NG 10-40792-50	8	10	/	/	/	M.112000	M.112001	M.112309-1	M.112004	M.112005
NG 10-40792-58	8	13,2	6	/	/	M.112000	M.112001	M.112309-1	M.112004	M.112005
NG 10-113474-4P	4	25	4	/	/	M.112000	M.112002	M.112311	M.112004	M.112006
NG 10-113474-4P-22	4	2,5	/	/	/	/	/	/	M.112004	M.112009
NG 10-113474-4P-26	4	2,5-3,0	12	/	/	/	/	/	M.112004	M.112009
NG 10-113474-4P-30	4	4-5	/	/	/	/	/	/	M.112004	M.112008
NG 10-113474-4P-38	4	6	10	/	/	M.112000	M.112001	M.112311	M.112004	M.112005
NG 10-113474-4P-50	4	10	/	/	/	M.112000	M.112001	M.112311	M.112004	M.112005
NG 10-113474-4P-58	4	13,2	6	/	/	M.112000	M.112001	M.112311	M.112004	M.112005
NG 10-113474-4P-62	4	16	/	/	/	M.112000	M.112002	M.112311	M.112004	M.112006
NG 10-113474-1P	0	50-60	0	/	/	M.112000	M.112003	M.112313	M.112004	M.112010
NG 10-113474-1P-107	0	50	/	/	/	M.112000	M.112003	M.112313	M.112004	M.112010
NG 10-113474-1P-72	0	22-25	4	/	/				M.112004	M.112006
NG 10-113474-1P-35	0	35	/	/	/	/	/	/	M.112004	M.112007
NG 10-113474-1P-45	0	9	8	/	/				M.112004	M.112005
NG 10-113474-1P-50	0	10	/	/	/				M.112004	M.112005
NG 10-113474-1P-58	0	13,2	6	/	/				M.112004	M.112005
NG 10-113474-1P-62	0	16	/	/	/				M.112004	M.112006
NG 10-113474-0P	4/0	107	4/0	/	/	/	/	/	M.105013	M.112012
NG 10-113474-0P-78	4/0	25	/	/	/	/	/	/	M.112004	M.112006
NG 10-113474-0P-107	4/0	50	/	/	/	/	/	/	M.112004	M.112010
NG 10-113474-0P-144	4/0	70	/	/	/	/	/	/	M.105013	M.105053

Please consult our sales department for other contacts or crimp tooling details.

SUPER ITS: HARSH ENVIRONMENT



Pneumatic Crimp Tool Type "B"



Die for Pneumatic Crimp Tool Type "B"



Locator for Pneumatic Crimp Tool Type "B"



Oleodinamic Crimp Tool



Oleodinamic Crimp Tool Die



REVERSE-BAYONET QUICK-DISCONNECT ITS-NG™ Nuclear-Grade Containment Area Class 1E Connectors Socket Crimp Contacts and Crimp Tools



SOCKET CRIMP CONTACTS - MANUAL AND PNEUMATIC TOOLS

Manual And Pneumatic Tools Part Numbers, Size & Dimensions							
Part Number	Contact Size	Wire Size		Manual Crimp Tool		Pneumatic Tool Type "A"	
		mm ²	AWG	Manual Tool	Turret	Pneumatic Tool	Turret
NG 10-40520LC	20	0.15-0.6	26-20	M.105001	M.105026	M.105003	M.105026
NG 10-40588	18	0.15-0.6	26-20	M.105001	M.105025	M.105003	M.105025
NG 10-40552	16S	1-1.5	18-16	M.105007	M.105009	M.105002	M.105009
NG 10-40552-12	16S	0.6	20	M.105007	M.105009	M.105002	M.105009
NG 10-40552-13	16S	0.15-0.6	26-20	M.105001	M.105009	M.105003	M.105009
NG 10-40552-15	16S	0.75-1	18	M.105007	M.105009	M.105002	M.105009
NG 10-40552-20	16S	1-2	14	M.105007	M.105009	M.105002	M.105009
NG 10-40552-26	16S	2.5-3.0	12	M.105007	M.105009	M.105002	M.105009
NG 10-40556	16	1-1.5	18-16	M.105007	M.105009	M.105002	M.105009
NG 10-40556-08	16	0.15-0.2	26-24	M.105001	M.105009	M.105003	M.105009
NG 10-40556-12	16	0.6	20	M.105007	M.105009	M.105003	M.105009
NG 10-40556-13	16	0.15-0.6	26-20	M.105001	M.105009	M.105003	M.105009
NG 10-40556-15	16	0.75-1	18	M.105007	M.105009	M.105002	M.105009
NG 10-40556-20	16	1-2	14	M.105007	M.105009	M.105002	M.105009
NG 10-40556-22	16	2.5	/	M.105007	M.105009	M.105002	M.105009
NG 10-40556-26	16	2.5-3.0	12	M.105007	M.105009	M.105002	M.105009
NG 10-40556-32	16	/	32-28	M.105007	M.105009	M.105003	M.105009
NG 10-40560	12	2.5-3.0	12	M.105007	M.105009	M.105002	M.105009
NG 10-40560-12	12	0.6	20	M.105007	M.105009	M.105003	M.105009
NG 10-40560-15	12	0.75-1	18	M.105007	M.105009	M.105002	M.105009
NG 10-40560-177	12	1.5	18-16	M.105007	M.105009	M.105002	M.105009
NG 10-40560-20	12	2	14	M.105007	M.105009	M.105002	M.105009
NG 10-40560-22	12	2.5	/	M.105007	M.105009	M.105002	M.105009
NG 10-40560-30	12	4-5	/	M.105007	M.105009	M.105002	M.105009
NG 10-40560-30M	12	4	/	M.105007	M.105009	M.105002	M.105009
NG 10-40560-38	12	6	10	M.105007	M.105009	M.105002	M.105009

Please consult our sales department for other contacts or crimp tooling details.



Manual Crimp Tool



Manual Crimp Tool Turret



Pneumatic Crimp Tool Type A



Pneumatic Crimp Tool Type A Turret

SUPER ITS: HARSH ENVIRONMENT

A



REVERSE-BAYONET QUICK-DISCONNECT ITS-NG™ Nuclear-Grade Containment Area Class 1E Connectors Socket Crimp Contacts and Crimp Tools



SOCKET CRIMP CONTACTS - MANUAL AND PNEUMATIC TOOLS

Manual and Pneumatic Tools Part Numbers, Size & Dimensions										
Part Number	Contact Size	Wire Size		Manual Crimp Tool		Pneumatic Tool Type "B"			Oleodynamic Tool	
		mm	AWG	Tool	Turret	Tool	Die	Locator	Tool	Die
NG 10-40793-1	8	9	8	/	/	M.112000	M.112001	M.112309	M.112004	M.112005
NG 10-40793-1-15	8	0.75-1	18	M.105028	M.104002	/	/	/	/	/
NG 10-40793-1-18	8	1-2	18-14	M.105028	M.104002	/	/	/	/	/
NG 10-40793-1-20	8	2	14	M.105028	M.104002	/	/	/	/	/
NG 10-40793-1-26	8	2.5-3.0	12	M.105028	M.104002	/	/	/	/	/
NG 10-40793-1-30	8	4-5	/	M.105028	M.104002	/	/	/	M.112004	M.112008
NG 10-40793-1-38	8	6	10	/	/	M.112000	M.112001	M.112309	M.112004	M.112005
NG 10-40793-1-50	8	10	/	/	/	M.112000	M.112001	M.112309	M.112004	M.112005
NG 10-10793-1-58	8	13.2	6	/	/	M.112000	M.112001	M.112309	M.112004	M.112005
NG 10-113474-4S-1	4	25	4	/	/	M.112000	M.112002	M.112311	M.112004	M.112006
NG 10-113474-4S-1-22	4	2.5	/	/	/	/	/	/	M.112004	M.112009
NG 10-113474-4S-1-26	4	2.5-3.0	12	/	/	/	/	/	M.112004	M.112009
NG 10-113474-4S-1-30	4	4-5	/	/	/	/	/	/	M.112004	M.112008
NG 10-113474-4S-1-38	4	6	10	/	/	M.112000	M.112001	M.112311	M.112004	M.112005
NG 10-113474-4S-1-50	4	10	/	/	/	M.112000	M.112001	M.112311	M.112004	M.112005
NG 10-113474-4S-1-58	4	13.2	6	/	/	M.112000	M.112001	M.112311	M.112004	M.112005
NG 10-113474-4S-62	4	16	/	/	/	M.112000	M.112002	M.112311	M.112004	M.112006
NG 10-113474-1S	0	50-60	0	/	/	M.112000	M.112003	M.112313	M.112004	M.112010
NG 10-113474-1S-107	0	50	/	/	/	M.112000	M.112003	M.112313	M.112004	M.112010
NG 10-113474-1S-72	0	22-25	4	/	/	M.112000	M.112002	M.112313	M.112004	M.112006
NG 10-113474-1S-35	0	35	/	/	/	/	/	/	M.112004	M.112007
NG 10-113474-1S-45	0	9	8	/	/				M.112004	M.112005
NG 10-113474-1S-50	0	10	/	/	/				M.112004	M.112005
NG 10-113474-1S-58	0	13.2	6	/	/				M.112004	M.112005
NG 10-113474-1S-62	0	16	/	/	/				M.112004	M.112006
NG 10-113474-0S	4/0	107	4/0	/	/	/	/	/	M.105013	M.112012
NG 10-113474-0S-78	4/0	25	/	/	/	/	/	/	M.112004	M.112006
NG 10-113474-0S-107	4/0	50	/	/	/	/	/	/	M.112004	M.112010
NG 10-113474-0S-144	4/0	70	/	/	/	/	/	/	M.105013	M.105053

Please consult our sales department for other contacts or crimp tooling details.

SUPER ITS: HARSH ENVIRONMENT



Pneumatic Crimp Tool Type "B"



Die for Pneumatic Crimp Tool Type "B"



Locator for Pneumatic Crimp Tool Type "B"



Oleodynamic Crimp Tool



Oleodynamic Crimp Tool Die



REVERSE-BAYONET QUICK-DISCONNECT ITS-NG™ Nuclear-Grade Containment Area Class 1E Connectors Pin Contact Insertion and Removal Tools

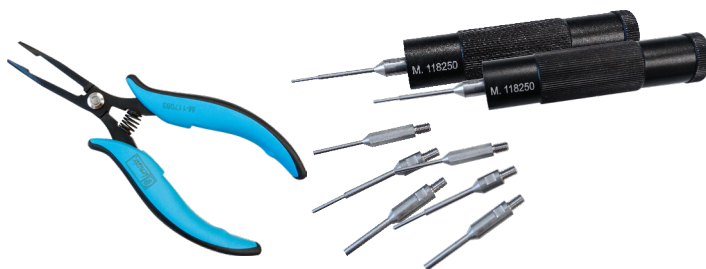


PIN CRIMP CONTACT - INSERTION AND REMOVAL TOOLS

Insertion and Removal Tools					
Part Number	Contact Size	Wire Size	Insertion Tool	Removal Tool	
NG 10-375-20	20	0.15-0.6	26-20	M.117346	M.118251
NG 10-40579	18	0.15-0.6	26-20	M.117346	M.118249
NG 10-40553	16S	1-1.5	18-16	M.117083	M.118250
NG 10-40553-12	16S	0.6	20	M.117083	M.118250
NG 10-40553-13	16S	0.15-0.6	26-20	M.117346	M.118250
NG 10-40553-15	16S	0.75-1.0	18	M.117083	M.118250
NG 10-40553-20	16S	1-2	14	M.117083	M.118250
NG 10-40553-26	16S	2.5-3.0	12	M.117082	M.118250
NG 10-40557	16	1-1.5	18-16	M.117083	M.118250
NG 10-40557L	16	1-1.5	18-16	M.117083	M.118250
NG 10-40557-08	16	0.15-0.2	26-24	M.117346	M.118250
NG 10-40557-12	16	0.6	20	M.117083	M.118250
NG 10-40557-13	16	0.15-0.6	26-20	M.117346	M.118250
NG 10-40557-15	16	0.75-1.0	18	M.117083	M.118250
NG 10-40557-20	16	1-2	14	M.117083	M.118250
NG 10-40557-22	16	2.5	/	M.117083	M.118250
NG 10-40557-22L	16	2.5	/	M.117083	M.118250
NG 10-40557-26	16	2.5-3.0	12	M.117083	M.118250
NG 10-40557-32	16	/	32-28	M.117083	M.118250
NG 10-40561	12	2.5-3.0	12	M.117082	M.118250
NG 10-40561-12	12	0.6	20	M.117083	M.118250
NG 10-40561-15	12	0.75-1.0	18	M.117083	M.118250
NG 10-40561-177	12	1.5	18-16	M.117082	M.118250
NG 10-40561-20	12	2	14	M.117082	M.118250
NG 10-40561-22	12	2.5	/	M.117082	M.118250
NG 10-40561-30	12	4-5	/	M.117082	M.118250
NG 10-40561-30M	12	4	/	M.117082	M.118250
NG 10-40561-38	12	6	10	M.117082	M.118250

Insertion and Removal Tools					
Part Number	Contact Size	Wire Size	Insertion Tool	Removal Tool	
NG 10-40792	8	9	8	M.117344	M.118260
NG 10-40792-15	8	0.75-1.0	18	M.117082	M.118260
NG 10-40792-18	8	1-2	18-14	M.117082	M.118260
NG 10-40792-20	8	2	14	M.117082	M.118260
NG 10-40792-26	8	2.5-3.0	12	M.117082	M.118260
NG 10-40792-30	8	4-5	/	M.117082	M.118260
NG 10-40792-38	8	6	10	M.117344	M.118260
NG 10-40792-50	8	10	/	M.117344	M.118260
NG 10-40792-58	8	13.2	6	M.117344	M.118260
NG 10-113474-4P	4	25	4	M.117347	M.118270
NG 10-113474-4P-22	4	2.5	/	M.117082	M.118270
NG 10-113474-4P-26	4	2.5-3.0	12	M.117082	M.118270
NG 10-113474-4P-30	4	4-5	/	M.117082	M.118270
NG 10-113474-4P-38	4	6	10	M.117344	M.118270
NG 10-113474-4P-50	4	10	/	M.117344	M.118270
NG 10-113474-4P-58	4	13.2	6	M.117344	M.118270
NG 10-113474-4P-62	4	16	/	M.117347	M.118270
NG 10-113474-1P	0	50-60	0	M.117348	M.118280
NG 10-113474-1P-107	0	50	/	M.117348	M.118280
NG 10-113474-1P-72	0	22-25	4	M.117347	M.118280
NG 10-113474-1P-35	0	35	/	M.117348	M.118280
NG 10-113474-1P-45	0	9	8	M.117344	M.118280
NG 10-113474-1P-50	0	10	/	M.117344	M.118280
NG 10-113474-1P-58	0	13.2	6	M.117344	M.118280
NG 10-113474-1P-62	0	16	/	M.117347	M.118280
NG 10-113474-0P	4/0	107	4/0	/	/
NG 10-113474-0P-78	4/0	25	/	/	/
NG 10-113474-0P-107	4/0	50	/	/	/
NG 10-113474-0P-144	4/0	70	/	/	/

Please consult our sales department for other contacts or crimp tooling details.



Insertion Tool

Removal Tool

SUPER ITS: HARSH ENVIRONMENT

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REVERSE-BAYONET QUICK-DISCONNECT ITS-NG™ Nuclear-Grade Containment Area Class 1E Connectors Socket Contact Insertion and Removal Tools



SOCKET CRIMP CONTACT - INSERTION AND REMOVAL TOOLS

Insertion and Removal Tool Part Numbers and Dimensions					
Part Number	Contact Size	Wire Size		Insertion tool	Removal Tool
		mm ²	AWG		
10-40520LC	20	0.15-0.6	26-20	M.117346	M.118251
10-40588	18	0.15-0.6	26-20	M.117346	M.118249
10-40552	16S	1-1.5	18-16	M.117083	M.118250
10-40552-12	16S	0.6	20	M.117083	M.118250
10-40552-13	16S	0.15-0.6	26-20	M.117346	M.118250
10-40552-15	16S	0.75-1	18	M.117083	M.118250
10-40552-20	16S	1-2	14	M.117083	M.118250
10-40552-26	16S	2.5-3.0	12	M.117082	M.118250
10-40556	16	1-1.5	18-16	M.117083	M.118250
10-40556-08	16	0.15-0.2	26-24	M.117346	M.118250
10-40556-12	16	0.6	20	M.117083	M.118250
10-40556-13	16	0.15-0.6	26-20	M.117346	M.118250
10-40556-15	16	0.75-1	18	M.117083	M.118250
10-40556-20	16	1-2	14	M.117083	M.118250
10-40556-22	16	2.5	/	M.117083	M.118250
10-40556-26	16	2.5-3.0	12	M.117082	M.118250
10-40556-32	16	/	32-28	M.117083	M.118250
10-40560	12	2.5-3.0	12	M.117082	M.118250
10-40560-12	12	0.6	20	M.117083	M.118250
10-40560-15	12	0.75-1	18	M.117083	M.118250
10-40560-177	12	1.5	18-16	M.117082	M.118250
10-40560-20	12	2	14	M.117082	M.118250
10-40560-22	12	2.5	/	M.117082	M.118250
10-40560-30	12	4-5	/	M.117082	M.118250
10-40560-30M	12	4	/	M.117082	M.118250
10-40560-38	12	6	10	M.117082	M.118250
10-40793-1	8	9	8	M.117344	M.118260
10-40793-1-15	8	0.75-1	18	M.117082	M.118260
10-40793-1-18	8	1-2	18-14	M.117082	M.118260

Insertion and Removal Tool Part Numbers and Dimensions					
Part Number	Contact Size	Wire Size		Insertion tool	Removal Tool
		mm ²	AWG		
10-40793-1-20	8	2	14	M.117082	M.118260
10-40793-1-26	8	2.5-3.0	12	M.117082	M.118260
10-40793-1-30	8	4-5	/	M.117082	M.118260
10-40793-1-38	8	6	10	M.117344	M.118260
10-40793-1-50	8	10	/	M.117344	M.118260
10-10793-1-58	8	13.2	6	M.117344	M.118260
10-113474-4S-1	4	22-25	4	M.117347	M.118270
10-113474-4S-1-22	4	2.5	/	M.117082	M.118270
10-113474-4S-1-26	4	2.5-3.0	12	M.117082	M.118270
10-113474-4S-1-30	4	4-5	/	M.117082	M.118270
10-113474-4S-1-38	4	6	10	M.117344	M.118270
10-113474-4S-1-50	4	10	/	M.117344	M.118270
10-113474-4S-1-58	4	13.2	6	M.117344	M.118270
10-113474-4S-1-62	4	16	/	M.117347	M.118270
10-113474-1S	0	50-60	0	M.117348	M.118280
10-113474-1S-107	0	50	/	M.117348	M.118280
10-113474-1S-72	0	22-25	4	M.117347	M.118280
10-113474-1S-35	0	35	/	M.117348	M.118280
10-113474-1S-45	0	9	8	M.117344	M.118280
10-113474-1S-50	0	10	/	M.117344	M.118280
10-113474-1S-58	0	13.2	6	M.117344	M.118280
10-113474-1S-62	0	16	/	M.117347	M.118280
10-113474-0S	4/0	107	4/0	/	/
10-113474-0S-78	4/0	22-25	4	/	/
10-113474-0S-107	4/0	50	/	/	/
10-113474-0S-144	4/0	70	/	/	/

Please consult our sales department for other contact options or crimpING tool details.

Guide Pin	
Contact size	Guide Pin P/N
20	M.125007
18	M.125000
16S and 16	M.125001
12	M.125002
8	M.125003
4	N/A
0	N/A
4/0	N/A

SUPER ITS: HARSH ENVIRONMENT

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Insertion Tool



Removal Tool



Guide Pin



RUGGED REVERSE-BAYONET
Super ITS-ITH Octobyte™
and Super ITS-IFO B Fiber Optic
Connector Selection Guide



Super ITS - ITH Connector with Octobyte Contacts

Precision-Machined Reverse-Bayonet Connectors featuring high-speed Octobyte contacts suitable for Cat 5, 5e, 6, 6A, 7 and 7a data and power applications. Coax, multifunctional vehicle bus (MVD) signal and power, and wired train bus (WTB) signal and power contacts also available.

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Super ITS - IFO B Fiber Optic Connectors

Precision-Machined Fiber Optic Singlemode and Multimode Reverse-Bayonet Datalink Connectors. Available with 2, 4, 6, or 12 fiber optic termini insert arrangements. Maximum insertion loss of 1.4 dB. Connectors accommodate 9/125, 50/125 and 62.5/125 optical fibers. Fiber optic cable is UL94-V0 compliant.

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SUPER ITS: HIGH-SPEED, HIGH DATA-RATE

B



RUGGED REVERSE-BAYONET
Super ITS-ITH Octobyte™
 High-Speed Ethernet Connectors
 Product Selection Guide



Super ITS - ITH Connector with Octobyte Contacts
Connector Overview

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Super ITS - Octobyte Contacts
**Ethernet contacts for Cat 5, 5e, 6, 6A, coax,
 Multifunctional Vehicle Bus (MVB), Wired Train Bus (WTB) and Power**

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Super ITS - ITH with Octobyte Contacts
**ITH Ethernet connector with Octobyte contacts and standard insert
 arrangements**

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Super ITS - ITH with Octobyte Contacts
**ITH Ethernet connector with Octobyte contacts and hybrid insert
 arrangements**

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SUPER ITS: HIGH-SPEED, HIGH DATA-RATE

B



REVERSE-BAYONET

Super ITS-ITH Octobyte

The faster 4/8 pole interconnect system for harsh-environment Ethernet data applications

Glenair precision machined, Super ITS - ITH Octobyte connectors with 4- and 8-pole contacts are available with fully dedicated Ethernet protocol or power / signal combo versions where a mix of signal-power and Ethernet is required. RoHS compliant, IP67 (IP68 on request) exceeds performance expectations typical in harsh environmental applications found throughout military defense, rail, and harsh industrial markets.

Shielded Octobyte contacts are vibration resistant and support Cat 5 thru Cat 7A Ethernet, MVB-WTB, RG58 and Coax cables. Connectors feature a reverse-bayonet, locking three pin quarter turn locking coupler. Octobyte contacts are rigorously tested making them the best solution for harsh environment applications where signal reliability is a must.



Tested for compliance according to EN50173-1 standards set for CAT5E and CAT7.
Testing was conducted using 12 jumpers, each 7.5 meters in length for a total of 90 meters.
Tested IAW: ISO F0 STP: CAT 7A, EN50173-1 F600-STP: CAT 7, EN50173-1 D STP: CAT 5E, ISO 11801 Class FA



- Industrial/military power and signal applications such as command and control shelters
- Ruggedized for high-reliability harsh environment performance
- Anti-vibration coupling for improved signal integrity
- Fire and smoke performance IAW railway standards
- Easy on-site assembly

SUPER ITS: HIGH-SPEED, HIGH DATA-RATE





RUGGED REVERSE-BAYONET Super ITS-ITH Octobyte™ High-Speed Ethernet Connectors



Octobyte™ Contact Module Specifications

OCTOBYTE™ ETHERNET CAT 6A, 7, 7A CONTACTS

Ethernet Contacts for	Ethernet CAT 6a Ethernet CAT 7, 7a
Featuring	Internal crimpable contacts
	Inspectable contact
	Integrated cable clamp
	Low mating force
Electrical Performance	Current rating 5A max
	Voltage drop (at 5A and 25°C) 70 mV max
Materials and Finish	Copper alloy and gold plating
Inserts (other colors available)	Thermoplastic resin - UL94V0 Aluminum alloy/anodized

OCTOBYTE™ ETHERNET CAT 5, 5E, 6, 6A CONTACTS

Ethernet Contacts for	Ethernet CAT 5 and 5e Ethernet CAT 6 and 6a
Featuring	Internal crimpable contacts
	Inspectable contact
	Integrated cable clamp
	Low mating force
Electrical Performance	Current rating 5A max
	Voltage drop (at 5A and 25°C) 70 mV max
Materials and Finish	Copper alloy and gold plating
Inserts	Thermoplastic resin - UL94V0 - EN45545 - R22, HL1 - HL2

OCTOBYTE™ COAX CONTACTS

Ethernet Contacts for	RG58
Featuring	Internal crimpable contacts
	Inspectable contact
	Integrated cable clamp
	Low mating force
Technical Characteristics	Current rating 5A max
	Voltage drop (at 5A and 25°C) 70 mV max
Materials and Finish	Copper alloy and gold plating
Inserts	PTFE - UL94V0

OCTOBYTE™ ETHERNET MVB - WTB CONTACTS

Ethernet Contacts for	MVB - Multifunctional Vehicle Bus WTB - Wired Train Bus
Featuring	Internal crimpable contacts
	Inspectable contact
	Integrated cable clamp
	Low mating force
Technical Characteristics	Current rating 5A max
	Voltage drop (at 5A and 25°C) 70 mV max
Materials and Finish	Copper alloy and gold plating
Inserts	Thermoplastic resin - UL94V0 - EN 45545 - R22, HL1 - HL2

OCTOBYTE™ ETHERNET MVB - WTB CONTACTS

Power Module	4 contacts 16 AWG
Featuring	Internal crimpable contacts
	Inspectable contact
	Integrated cable clamp
	Low mating force
Technical Characteristics	Current rating 13A max
	Voltage drop (at 13A and 25°C) 74 mV max
Materials and Finish	Copper alloy and gold plating
Inserts	Thermoplastic resin - UL94V0
Interfacial Seal	Fluorosilicone
Integrated Grommet	Fluorosilicone
Cable accepted:	16 - 20 AWG

SUPER ITS: HIGH-SPEED, HIGH DATA-RATE

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RUGGED REVERSE-BAYONET Super ITS-ITH Octobyte™ High-Speed Ethernet Connectors



Octobyte™ Contact Modules



Octobyte™ Cat 7a contacts

4/8 Pole Octobyte contacts deliver high-speed I/O contact support for 10 gigabit ethernet at 1,000 MHz. Contacts are compatible with Cat 6A, Cat 7 and Cat 7a Ethernet protocols and feature a fully inspectable and inner crimped contact with low mating force requirements and integral cable clamp. 5A max current rating with a voltage drop of 70 mV max at 5A and 25°C. Contacts are copper alloy and gold plated.

Cable Accommodation	
Wire Size Type	Cable O.D. Range
A	6-7
B	7-8
C	8-9
D	9-9.6

Interfacial Seal Color	
Color Code	Colour
Omitted for Standard	
G14	Black
G14GN	Green
G14GY	Grey
G14R	Red
G14Y	Yellow

How To Order	
Sample Part Number:	Q Ø 8 P -A B1 -7A
Series	Q = Octobyte Contacts
Contact Size	Ø = Contact size 0
Number of Contacts	8 = 8 poles
Contact Gender	P = Pin contacts (male) S = Socket contacts (female)
Cable Range	See cable accommodation table
Plating	B1 = Gold Plating
Interfacial Seal Color	See interfacial seal color table; omit for standard blue
Category	-7A = Cat 7a

Installation Tools		
Crimper	Positioner	Insertion / Removal Tool
809-015	809-005	809-088 and M.104010



Octobyte™ contacts for Cat 5 thru 6A

Octobyte contacts for high-speed I/O contact support, up to 10000 Mbps / 10 Gbps at 500 MHz. Contacts are compatible with Cat 5, Cat 5e, Cat 6 and Cat 6A protocols and feature inner crimped and fully inspectable contacts with low mating force requirements. 5A max current rating. Voltage drop of 70 mV max at 5A and 25°C. Contacts are copper alloy and gold plated. Inserts are thermoplastic resin; UL94V0-NFF 16-102 12F3 Exigence 3.

Cable Accommodation Table	
Wire Size Type	Cable O.D. Range
A	6-7
B	7-8
C	8-9
D	9-9.6

How To Order	
Sample Part Number:	Q Ø 8 P -A B1
Series	Q = Octobyte Contacts
Contact Size	Ø = Contact size 0
Number of Contacts	4 = 4 poles 8 = 8 poles
Contact Gender	P = Pin contacts (male) S = Socket contacts (female)
Cable Range	See cable accommodation table
Plating	B1 = Gold Plating

Installation Tools		
Crimper	Positioner	Insertion / Removal Tool
809-015	809-005	809-088 and M.104010

SUPER ITS: HIGH-SPEED, HIGH DATA-RATE

B



RUGGED REVERSE-BAYONET Super ITS-ITH Octobyte™ High-Speed Ethernet Connectors



Octobyte™ Contact Modules



Octobyte™ Coax contacts

Octobyte, coax contacts deliver high-speed I/O contact support for RG58 and RG59U cable. Featuring fully inspectable and inner crimped contacts with low mating force requirements and integral cable clamp. 5A max current rating with a voltage drop of 70 mV max at 5A and 25°C. Contacts are copper alloy and gold plated. Inserts are PTFE

How To Order						
Sample Part Number:	Q	Ø	CX	P	-RG58	B1
Series	Q = Octobyte Contacts					
Contact Size	Ø = Contact size 0					
Number of Contacts	CX = Coax					
Contact Gender	P = Pin contacts (male) S = Socket contacts (female)					
Cables	RG58 = 50 Ohm RG59U = 75 Ohm					
Plating	B1 = Gold Plating					

Installation Tools		
Crimper	RG58 Cable Die	RG59 Cable Die
M.112017	Y197	Y143

Octobyte™ contacts for MVB and WTB

Octobyte contacts for high-speed I/O contact support of Multifunctional Vehicle Bus (MVB) and Wired Train Bus (WTB) systems. Featuring fully inspectable and inner crimped contacts with low mating force requirements and integral cable clamp. 5A max current rating. Voltage drop of 70 mV max at 5A and 25°C. Contacts are copper alloy and gold plated. Inserts are thermoplastic resin; UL94V0-NFF 16-102 12F3 Exigence 3.



Cable Accommodation Table	
Wire Size Type	Cable O.D. Range
A	6-7
B	7-8
C	8-9
D	9-9.6

How To Order							
Sample Part Number:	Q	Ø	4	P	-A	B1	AD
Series	Q = Octobyte Contacts						
Contact Size	Ø = Contact size 0						
Number of Contacts	2 = 2 poles 4 = 4 poles						
Contact Gender	P = Pin contacts (male) S = Socket contacts (female)						
Cable Range	See cable accommodation table						
Plating	B1 = Gold Plating						
Contact Adapter	AD = Adapter for crimp 18 - 22 AWG						

Installation Tools		
Crimper	Positioner	Insertion / Removal Tool
809-015 and 809-136	809-005 and 809-138	M.104010

SUPER ITS: HIGH-SPEED, HIGH DATA-RATE

B



RUGGED REVERSE-BAYONET
Super ITS-ITH Octobyte™
High-Speed Ethernet Connectors



Octobyte™ Contact Modules



Octobyte™ power contacts

Octobyte, power contacts. Each contact module contains 4 size 16 contacts that are inspectable and internally crimped with low mating force requirement and integral cable clamp. 13A max current rating with a voltage drop of 74 mV max at 13A and 25°C. Contacts are copper alloy and gold plated. Inserts are thermoplastic resin. Integrated cable sealing grommet accepts 16 thru 20 AWG (Ø 1.65 thru Ø 2.8)

How To Order					
Sample Part Number:	Q	Ø	4	P	B1
Series	Q = Octobyte Contacts				
Contact Size	Ø = Contact size 0				
Number of Contacts	4 = 4 Poles				
Contact Gender	P = Pin contacts (male) S = Socket contacts (female)				
Plating	B1 = Gold Plating				

Insallation Tools		
Crimper	Positioner	Insertion / Removal Tool
809-136	809-137	809-131

SUPER ITS: HIGH-SPEED, HIGH DATA-RATE





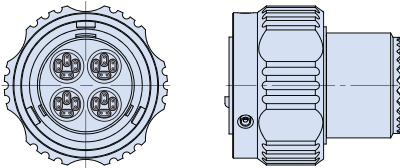
RUGGED REVERSE-BAYONET Super ITS-ITH Octobyte™ High-Speed Ethernet Connectors



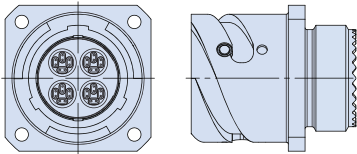
Contacts and Standard Insert Arrangements

Super ITS - ITH Octobyte™ Connectors

Precision machined connectors with 4/8 pole Octobyte contacts provide high-speed Ethernet connectivity for extreme environmental exposure and corrosion resistance typically needed in rail, mining, and other industrial applications. Convenient reverse bayonet mating provides easy intermateability while the locking three pin bayonet coupler prevents the connector from demating under high shock and high vibration conditions. Accessory thread for attachment of backshells and adapters.



03 - Plug



030 - Rear Panel-mount Wall-mount Receptacle

How To Order	
Sample Part Number:	ITH 030 R 5C 32Q4 S B0 N0 F7
Series	ITH
Contact Size	030 = rear panel mount, wall mount Receptacle 06 = Straight Plug
Environmental	R = Environmental
Number of Keys	5C = 5 keys
Insert Arrangements	18-Q1, 32-Q4, 36-Q5, 40-Q7
Contact Gender	P = Pin contacts (male) S = Socket contacts (female)
Connector less contact	B0 = contact not supplied (order the contact separately)
Accessory	N0 = without Backshell. Please consult the factory for options
Plating	F6 = Electrodeposited black paint (cataphoresis), RoHS compliant F7 = Black Zinc Nickel, RoHS compliant

SUPER ITS: HIGH-SPEED, HIGH DATA-RATE

FRONT VIEW RECEPTACLE CONNECTORS



18-Q1



32-Q4



36-Q5



40-Q7

B



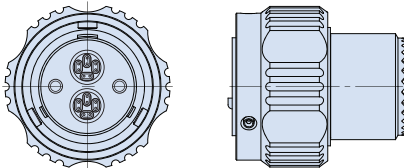
RUGGED REVERSE-BAYONET Super ITS-ITH Octobyte™ High-Speed Ethernet Connectors



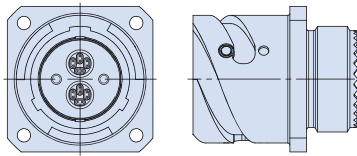
Contacts and Standard Insert Arrangements

Series ITS - ITH Octobyte™ Connectors

Precision machined connectors with hybrid insert arrangement offering Octobyte contacts for data and power contacts provide both network connectivity and power distribution in one connector. Designed for extreme environmental exposure and corrosion resistance typically needed in rail, mining, and other industrial applications. Convenient reverse bayonet mating provides easy intermateability while the locking three pin bayonet coupler prevents the connector from demating under high shock and high vibration conditions. Accessory thread for attachment of backshells and adapters.



03 - Plug



030 - Rear Panel-mount Wall-mount Receptacle

		How To Order								
Sample Part Number:	ITH	Ø3Ø	R	5C	32Q4	S	BØ	NØ	F7	
Series	ITH									
Contact Size	030 = rear panel mount, wall mount receptacle 06 = straight plug									
Environmental	R = environmental									
Number of Keys	5C = 5 keys									
Insert Arrangements	28-OB4, 36-OB7									
Contact Gender	P = pin contacts (male) S = socket contacts (female)									
Connector less contact	BØ = contact not supplied (order the contact separately)									
Accessory	NØ = without backshell. Please consult the factory for options									
Plating	F6 = electrodeposited black paint (cataphoresis), RoHS compliant F7 = black zinc nickel, RoHS compliant									

FRONT VIEW PLUG CONNECTORS



28-OB4
2 OCTOBYTE
2 SIZE 8 CONTACTS



36-OB7
3 OCTOBYTE
4 SIZE 8 CONTACTS

SUPER ITS: HIGH-SPEED, HIGH DATA-RATE

B

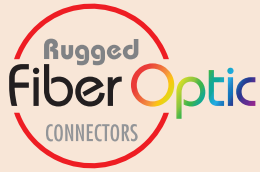


RUGGED REVERSE-BAYONET

Super ITS-IFO B High-Speed High-Data Rate Fiber Optic Connectors



Product Selection Guide



Super ITS - IFO B Fiber Optic Connectors
Fiber Optic Connector Overview

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Super ITS - IFO B Fiber Optic Connectors
2-Pole fiber optic, shell size 10SL connector with environmental sealing PHM or Strain Relief PHM backshell

PAGE B-12



Super ITS - IFO B Fiber Optic Connectors
4-Pole fiber optic, shell size 16S connector with environmental sealing strain relief backshell and Kevlar fiber retention

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Super ITS - IFO B Fiber Optic Connectors
6-Pole fiber optic, shell size 24 connector with environmental sealing PG backshell for conduit termination or PGSW backshell with strain relief for use with jacketed cables

PAGE B-19



Super ITS - IFO B Fiber Optic Connectors
12-Pole fiber optic, shell size 32 fiber optic connector with environmental sealing PG backshell for conduit termination

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SUPER ITS: HIGH-SPEED, HIGH DATA-RATE

B



RUGGED REVERSE-BAYONET

Super ITS - IFO B Fiber Optic Connectors

High-speed, high data rate fiber optic connectors for harsh environmental conditions

Glenair Super ITS - IFO B connectors meet the need for high-speed, multi-gigabit data transmission in rugged harsh environments such as armored combat support vehicles, communications shelters and bunkers, military aircraft, harsh wayside rail applications, and more. These optical fiber-equipped interconnects far outstrip the data carrying capacity and speed of conventional copper wire systems. Super ITS - IFO B interconnects pack orders of magnitude more data with almost instantaneous delivery to the user, and are immune to all forms of electromagnetic interference.

Glenair Super ITS - IFO B fiber optic connectors are available with 2, 4, 6 or 12 termini configurations. Termini accommodate 9/125 (Singlemode), 50/125 and 62/125 (Multimode) optical fibers with a maximum 1.4dB insertion loss. Backshells and adapters are engineered to minimize bend radius and provide strain relief with design improvements such as integral wire sealing grommets and retractable conduit fittings. Fiber optic cleaning and inspection toolkits as well as fiber optic termination training and certification are also available.



Features:

- EMI and spark/arc immunity for high-reliability settings
- 2, 4, 6, or 12 fiber optic termini configurations available
- Termini accommodate 9/125 (Singlemode), 50/125 and 62/125 (Multimode) optical fibers
- Turnkey high-speed fiber optic interconnect cables and harnesses available
- Environmentally sealed (IP67)
- UL94-V0 compliant fiber optic cable
- Integrated optical media alignment grommet

SUPER ITS: HIGH-SPEED, HIGH DATA-RATE





RUGGED REVERSE-BAYONET

Super ITS-IFO B High-Speed High-Data Rate Fiber Optic Connectors



2-Pole Fiber Optic Connectors and Backshells



Super ITS - IFO B 2-pole, size 10SL connectors with environmental backshell

Super ITS - IFO B fiber optic connectors deliver ruggedized high-speed, high data rate I/O interconnect performance in extreme environmental conditions. Designed to optimize high fiber tensile strength, axial alignment, and resistance to micro-bending for improved optical performance. Environmental backshells are available with or without additional strain relief. Receptacle shell styles include wall-mount, box-mount, and in-line.

SUPER ITS: HIGH-SPEED, HIGH DATA-RATE

Connector Shell Styles	
Code	Description
00	Front panel-mount, wall-mount receptacle with through-holes and accessory threads.
01	In-line receptacle
02	Front panel-mount, box-mount receptacle with through-holes, no accessory threads.
06	Plug

Connector Technical Characteristics	
Connection	Fiber Optic
Fiber Type	9/125 - 50/125 - 62.5/125
Max Insertion Loss [DB]	≤ 1.4 dB
Working Temperature	-25° to +85° C
Flammability	UL94-V0
Insert	Thermoplastic Resin
Shell	Aluminum Alloy; see Material/Finish table for available platings
Mating Cycles	500 Cycles
Environmental Rating	IP67 (mated)
Gaskets and Bushings	Polychloroprene and Silicone Rubber

Material and Finish	
Optical Contacts	Zirconia ceramic ferrule
	Stainless steel springs (female)
	Zirconia ceramic split sleeve (female)
Gaskets and Bushings	Polychloroprene and Silicone Rubber

How To Order	
Sample Part Number:	IFO B 00 10SL -2 M 9 PHM F7
Series	IFO B = ITS MIL-DTL-5015 Type fiber optic reverse bayonet coupling
Shell Style	See shell style table
Shell Size	10SL
Number of Fibers	2
Contact Gender	M = Male F = Female
Fiber Type	9 = Single mode 9/125 50 = Multimode 50/125 62.5 = Multimode 62.5/125
Backshell	PHM = Environmental sealing backshell SRPHM = Environmental sealing backshell with strain relief
Material / Finish	Omit for aluminum / cadmium olive drab F6 = Aluminum / black electrodeposited paint F7 = Aluminum / black zinc nickel

Available Backshells	
Description	Style
PHM Environmental Sealing Backshell for Jacketed Cables	
SRPHM Environmental Sealing, Strain Relief Backshell for use with Jacketed Cables	



RUGGED REVERSE-BAYONET Super ITS-IFO B High-Speed High-Data Rate Fiber Optic Connectors

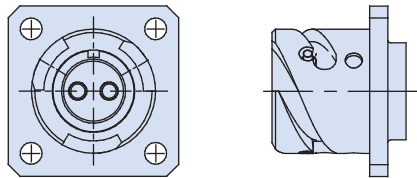


2-Pole Fiber Optic Connectors and Backshells

Glenair Super ITS - IFO B Fiber Optic reverse bayonet, shell size 10SL connectors offer a two-pole fiber optic interconnect solution packaged in a rugged, reverse-bayonet design with integrated environmental sealing. Connectors with accessory threads are available with either PHM or SR PHM style extended-length backshells to prevent bending of fiber optic cable. Backshells are intended for use with jacketed cables. Protective covers are available for use at all times when connectors are in unmated condition.

Fiber Optic Contacts	
Contact	Dimensions
Male	
Female	

SHELL STYLE 02: FRONT PANEL-MOUNT, BOX-MOUNT RECEPTACLE WITH THROUGH-HOLES, WITHOUT ACCESSORY THREADS



Part Number Options
Contact Gender
M = Male
F = Female
Fiber Type
9 = Single mode 9/125
50 = Multimode 50/125
62.5 = Multimode 62.5/125
Material / Finish
Omit for aluminum/cadmium olive drab
F6 = aluminum/black electrodeposited paint; RoHS
F7 = aluminum/black zinc nickel; RoHS

Sample Part Number							
IFO B	02	10SL	-2	M	9	PHM	F7
ITS Series	Shell Style	Shell Size	No. Of Fibers	Contact Gender	Fiber Type	Backshell	Material / Finish

SUPER ITS: HIGH-SPEED, HIGH DATA-RATE



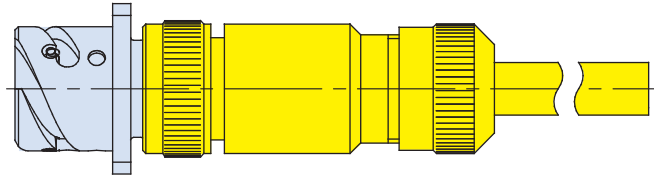
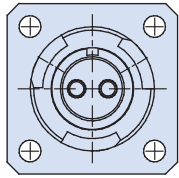


RUGGED REVERSE-BAYONET Super ITS-IFO B High-Speed High-Data Rate Fiber Optic Connectors



2-Pole Fiber Optic Connectors and Backshells

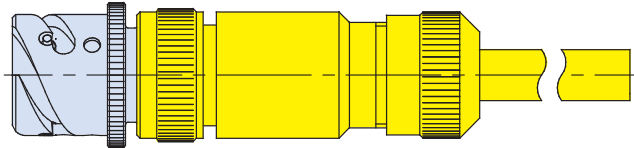
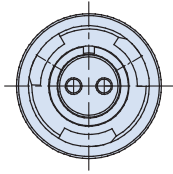
SHELL STYLE 00: FRONT PANEL-MOUNT, WALL-MOUNT RECEPTACLE WITH THROUGH-HOLES AND ENVIRONMENTAL CABLE SEALING BACKSHELL



Sample Part Number							
IFO B	00	10SL	-2	M	9	PHM	F7
ITS Series	Shell Style	Shell Size	No. Of Fibers	Contact Gender	Fiber Type	Backshell	Material / Finish

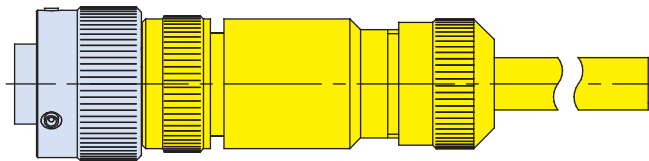
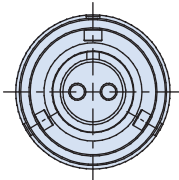
Part Number Options
Contact Gender
M = Male
F = Female
Fiber Type
9 = Single mode 9/125
50 = Multimode 50/125
62.5 = Multimode 62.5/125
Backshell
PHM = Cable sealing backshell
Omit for none
Material / Finish
Omit for aluminum/cadmium olive drab
F6 = Aluminum/black electrodeposited paint; RoHS
F7 = Aluminum/black zinc nickel; RoHS

SHELL STYLE 01: IN-LINE RECEPTACLE AND ENVIRONMENTAL CABLE SEALING BACKSHELL



Sample Part Number							
IFO B	01	10SL	-2	M	50	PHM	F7
ITS Series	Shell Style	Shell Size	No. Of Fibers	Contact Gender	Fiber Type	Backshell	Material / Finish

SHELL STYLE 06: PLUG AND ENVIRONMENTAL CABLE SEALING BACKSHELL



Sample Part Number							
IFO B	06	10SL	-2	M	9	PHM	F7
ITS Series	Shell Style	Shell Size	No. Of Fibers	Contact Gender	Fiber Type	Backshell	Material / Finish

SUPER ITS: HIGH-SPEED, HIGH DATA-RATE

B

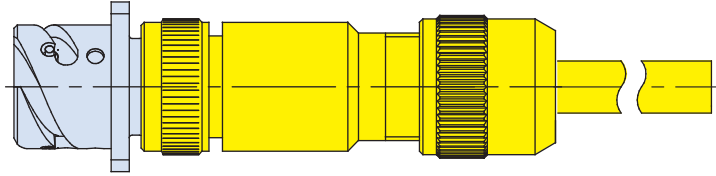
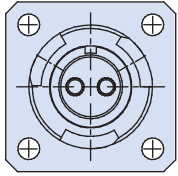


RUGGED REVERSE-BAYONET Super ITS-IFO B High-Speed High-Data Rate Fiber Optic Connectors



2-Pole Fiber Optic Connectors and Backshells

SHELL STYLE 00: FRONT PANEL-MOUNT, WALL-MOUNT RECEPTACLE WITH THROUGH-HOLES AND ENVIRONMENTAL CABLE SEALING BACKSHELL WITH STRAIN RELIEF



Sample Part Number

IFO B	00	10SL	-2	M	9	SRPHM	F7
ITS Series	Shell Style	Shell Size	No. Of Fibers	Contact Gender	Fiber Type	Backshell	Material / Finish

Part Number Options

Contact Gender

M = Male
F = Female

Fiber Type

9 = Single mode 9/125
50 = Multimode 50/125
62.5 = Multimode 62.5/125

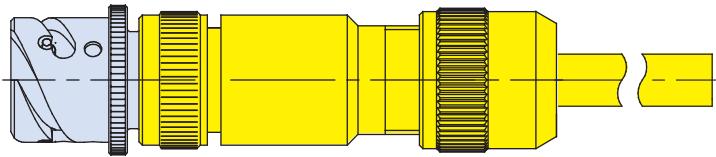
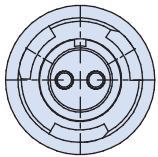
Backshell

SRPHM = Strain relief, cable sealing backshell
Omit for none

Material / Finish

Omit for aluminum/cadmium olive drab
F6 = Aluminum/black electrodeposited paint; RoHS
F7 = Aluminum/black zinc nickel; RoHS

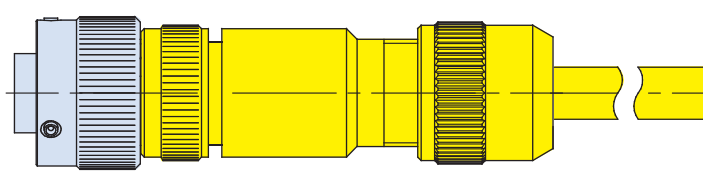
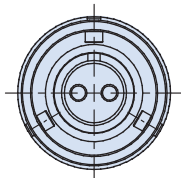
SHELL STYLE 01: IN-LINE RECEPTACLE AND ENVIRONMENTAL CABLE SEALING BACKSHELL WITH STRAIN RELIEF



Sample Part Number

IFO B	01	10SL	-2	M	9	SRPHM	F7
ITS Series	Shell Style	Shell Size	No. Of Fibers	Contact Gender	Fiber Type	Backshell	Material / Finish

SHELL STYLE 06: PLUG AND ENVIRONMENTAL CABLE SEALING BACKSHELL WITH STRAIN RELIEF



Sample Part Number

IFO B	06	10SL	-2	M	50	SRPHM	F7
ITS Series	Shell Style	Shell Size	No. Of Fibers	Contact Gender	Fiber Type	Backshell	Material / Finish

SUPER ITS: HIGH-SPEED, HIGH DATA-RATE

B



RUGGED REVERSE-BAYONET



Super ITS-IFO B High-Speed High-Data Rate Fiber Optic Connectors

4-Pole Fiber Optic Connector and Backshell



Super ITS - IFO B 4-pole, size 16S connectors with environmental backshell

Super ITS - IFO B fiber optic connectors deliver ruggedized high-speed, high data rate I/O interconnect performance in extreme environmental conditions. Designed to optimize high fiber tensile strength, axial alignment, and resistance to micro-bending for improved optical performance. An environmental backshell is available. Receptacle shell styles include wall-mount, box-mount, and in-line.

SUPER ITS: HIGH-SPEED, HIGH DATA-RATE

Connector Technical Characteristics	
Property	Description
Connection	Fiber Optic
Fiber Type	9/125 - 50/125 - 62/125
Insertion Loss [DB]	≤ 1.4 dB
Working Temperature	-25° to +85° C
Flammability	UL94-V0
Insert	Thermoplastic Resin
Shell	Aluminum Alloy; see Material/Finish table for available platings
Mating Cycles	500 Cycles
Environmental Rating	IP67 (mated)
Gaskets and Bushings	Polychloroprene and Silicone Rubber
Optical Contact Technical Characteristics	
Optical Contacts	Zirconia ferrules
	Stainless steel springs
	Zirconia split sleeves
Ferrule Diameter	2.5 mm

How To Order								
Sample Part Number:	IFO B	00	16S	-4	M	9	SRSW1	F7
Series	IFO B = ITS MIL-DTL-5015 Type fiber optic reverse bayonet coupling							
Shell Style	See shell style table							
Shell Size	16S							
Number of Fibers	4							
Contact Gender	M = Male F = Female							
Fiber Type	9 = Single mode 9/125 50 = Multimode 50/125 62.5 = Multimode 62.5/125							
Backshell	SRSW1 = Environmentally sealed backshell							
Material / Finish	Omit for aluminum / cadmium olive drab F6 = Aluminum / black electrodeposited paint F7 = Aluminum / black zinc nickel							

Connector Shell Styles	
Code	Description
00	Front panel-mount, wall-mount receptacle with through-holes and accessory threads.
01	In-line receptacle
02	Front panel-mount, box-mount receptacle with through-holes, no accessory threads.
06	Plug

Backshell Option	
Description	Style
SRSW1 Environmental Sealing Backshell for use with jacketed cable	



RUGGED REVERSE-BAYONET Super ITS-IFO B High-Speed High-Data Rate Fiber Optic Connectors

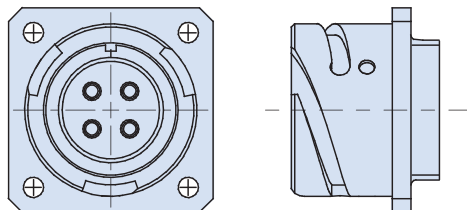


4-Pole Fiber Optic Connector and Backshell

Glenair Super ITS - IFO B Fiber Optic reverse bayonet, shell size 16S connectors offer a four-pole fiber optic interconnect solution packaged in a rugged, reverse-bayonet design with integrated environmental sealing. Connectors with accessory threads may be outfitted with an SRSW1 environmentally-sealed backshell for jacketed cable designed to prevent bending of fiber optic media. Protective covers are available for use at all times when connectors are in unmated condition.

Fiber Optic Contacts	
Contact	Dimensions
Male	
Female	

SHELL STYLE 02: FRONT PANEL-MOUNT, BOX MOUNT RECEPTACLE WITH THROUGH HOLES, NO ACCESSORY THREADS



Part Number Options
Contact Gender
M = Male F = Female
Fiber Type
9 - Single mode 9/125 50 - Multimode 50/125 62.5 - Multimode 62.5/125
Backshell
None available
Material / Finish
Omit for aluminum/cadmium olive drab F6 = Aluminum/black electrodeposited paint; RoHS F7 = Aluminum/black zinc nickel; RoHS

Sample Part Number

IFO B	02	16S	-4	M	9		F7
ITS Series	Shell Style	Shell Size	No. Of Fibers	Contact Gender	Fiber Type	Backshell	Material / Finish

SUPER ITS: HIGH-SPEED, HIGH DATA-RATE

B

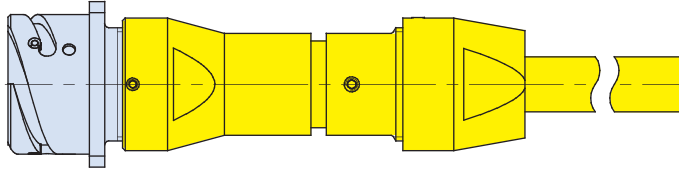
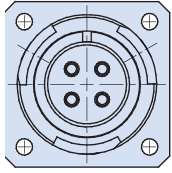


RUGGED REVERSE-BAYONET Super ITS-IFO B High-Speed High-Data Rate Fiber Optic Connectors



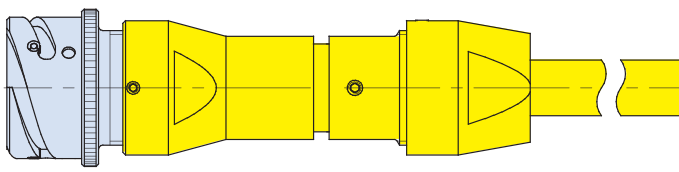
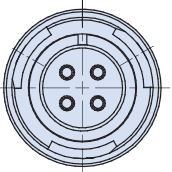
4-Pole Fiber Optic Connector and Backshell

SHELL STYLE 00: FRONT PANEL-MOUNT, WALL-MOUNT RECEPTACLE WITH THROUGH-HOLES AND ENVIRONMENTAL CABLE SEALING BACKSHELL WITH STRAIN RELIEF; FOR USE WITH JACKETED CABLE



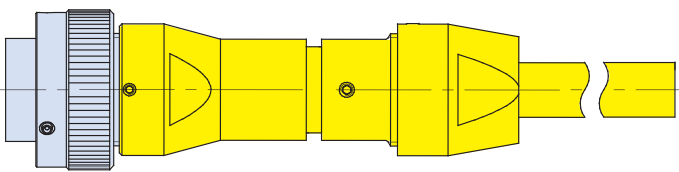
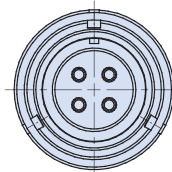
Sample Part Number							
IFO B	00	16S	-4	M	9	SRSW1	F7
ITS Series	Shell Style	Shell Size	No. Of Fibers	Contact Gender	Fiber Type	Material / Finish	Material / Finish

SHELL STYLE 01: IN-LINE RECEPTACLE AND ENVIRONMENTAL CABLE SEALING BACKSHELL WITH STRAIN RELIEF; FOR USE WITH JACKETED CABLE



Sample Part Number							
IFO B	01	16S	-4	M	62.5	SRSW1	F7
ITS Series	Shell Style	Shell Size	No. Of Fibers	Contact Gender	Fiber Type	Material / Finish	Material / Finish

SHELL STYLE 06: PLUG AND ENVIRONMENTAL CABLE SEALING BACKSHELL WITH STRAIN RELIEF; FOR USE WITH JACKETED CABLE



Sample Part Number							
IFO B	06	16S	-4	M	50	SRSW1	F7
ITS Series	Shell Style	Shell Size	No. Of Fibers	Contact Gender	Fiber Type	Material / Finish	Material / Finish

Part Number Options
Contact Gender
M = Male F = Female
Fiber Type
9 - Single mode 9/125 50 - Multimode 50/125 62.5 - Multimode 62.5/125
Backshell
SRSW1 = environmentally sealed backshell with fiber retention strain relief. For use with jacketed cable. Omit for none
Material / Finish
Omit for aluminum/cadmium olive drab F6 = Aluminum/black electrodeposited paint; RoHS F7 = Aluminum/black zinc nickel; RoHS

SUPER ITS: HIGH-SPEED, HIGH DATA-RATE

B



RUGGED REVERSE-BAYONET Super ITS-IFO B High-Speed High-Data Rate Fiber Optic Connectors



6-Pole Fiber Optic Connector and Backshell



Super ITS - IFO B 6-pole, size 24 connectors with environmental backshell

Super ITS - IFO B fiber optic connectors deliver ruggedized high-speed, high data rate I/O interconnect performance in extreme environmental conditions. Designed to optimize high fiber tensile strength, axial alignment, and resistance to micro-bending for improved optical performance. Environmental backshells are available with or without additional strain relief. Styles include plug and wall-mount receptacle.

Connector Technical Characteristics	
Property	Description
Connection	Fiber Optic
Fiber Type	9/125 - 50/125 - 62/125
Insertion Loss [DB]	≤ 1.4 dB
Working Temperature	-25° to +85° C
Flammability	UL94-V0
Insert	Thermoplastic Resin
Shell	Aluminum Alloy; see Material/Finish table for available platings
Mating Cycles	500 Cycles
Environmental Rating	IP67 (mated)
Gaskets and Bushings	Polychloroprene and Silicone Rubber
Optical Contact Technical Characteristics	
Optical Contacts	Zirconia ferrules
	Stainless steel springs
	Zirconia split sleeves
Ferrule Diameter	2.5 mm

Connector Shell Styles	
Code	Description
030	Rear panel-mount, wall-mount receptacle with M3 metric threaded holes
06	Plug

How To Order	
Sample Part Number:	IFO B 06 24 -6 M 9 PG F7
Series	IFO B = ITS MIL-DTL-5015 Type fiber optic reverse bayonet coupling
Shell Style	See shell style table
Shell Size	24
No. of Fibers	6
Contact Gender	M = Male F = Female
Fiber Type	9 - Single mode 9/125 50 - Multimode 50/125 62.5 - Multimode 62.5/125
Backshell	PG = Backshells for conduit termination PGSW = Strain relief backshells for jacketed cables
Material / Finish	Omit for aluminum / cadmium olive drab F6 = Aluminum / black electrodeposited paint F7 = Aluminum / black zinc nickel

Available Backshell	
Description	Style
PG Conduit Termination Backshell	
PGSW Strain relief backshells for jacketed cables	

SUPER ITS: HIGH-SPEED, HIGH DATA-RATE

B



RUGGED REVERSE-BAYONET Super ITS-IFO B High-Speed High-Data Rate Fiber Optic Connectors

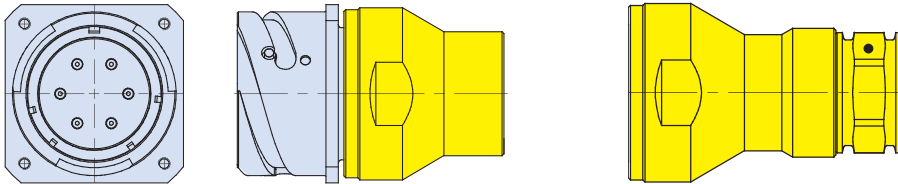


6-Pole Fiber Optic Connector and Backshell

Glenair Super ITS - IFO B Fiber Optic reverse bayonet, shell size 24 connectors offer a six-pole fiber optic interconnect solution packaged in a rugged, reverse-bayonet design with integrated environmental sealing. Connectors with accessory threads may be outfitted with PG or PGSW environmentally-sealed backshells for conduit termination. Protective covers are available for use at all times when connectors are in unmated condition.

Fiber Optic Contacts	
Contact	Dimensions
Male	
Female	

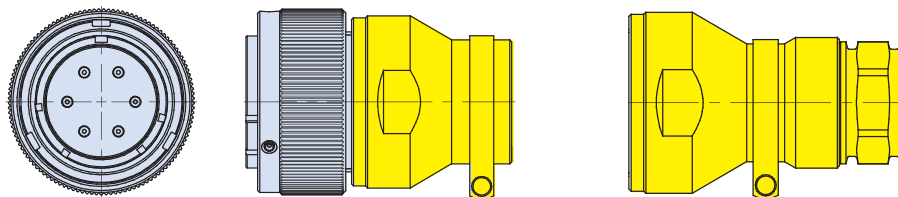
SHELL STYLE 030: REAR PANEL-MOUNT, WALL-MOUNT RECEPTACLE AND PG (FOR CONDUIT) OR PGSW (FOR JACKETED CABLE) BACKSHELLS



Sample Part Number

IFO B	030	24	-6	M	9	PG	F7
IFO B Series	Shell Style	Shell Size	No. Of Fibers	Contact Gender	Fiber Type	Backshell	Material / Finish

SHELL STYLE 06: IN-LINE PLUG AND PG OR PGSW BACKSHELL AND PG (FOR CONDUIT) OR PGSW (FOR JACKETED CABLE) BACKSHELLS



Sample Part Number

IFO B	06	24	-6	M	9	PGSW	F7
IFO B Series	Shell Style	Shell Size	No. Of Fibers	Contact Gender	Fiber Type	Backshell	Material / Finish

Part Number Options

Contact Gender

M = Male

F = Female

Fiber Type

9 - Single mode 9/125

50 - Multimode 50/125

62.5 - Multimode 62.5/125

Backshell

PG = Environmentally sealed backshell for conduit termination

PGSW = Environmentally sealed backshell with strain relief for jacketed cables

Omit for none

Material / Finish

Omit for aluminum/cadmium olive drab

F6 = Aluminum/black

electrodeposited paint; RoHS

F7 = Aluminum/black zinc nickel; RoHS

SUPER ITS: HIGH-SPEED, HIGH DATA-RATE

B



RUGGED REVERSE-BAYONET Super ITS-IFO B High-Speed High-Data Rate Fiber Optic Connectors



12-Pole Fiber Optic Connector and Backshell



Super ITS - IFO B 12-pole, size 32 connectors with environmental backshell

Super ITS - IFO B fiber optic connectors deliver ruggedized high-speed, high data rate I/O interconnect performance in extreme environmental conditions. Designed to optimize high fiber tensile strength, axial alignment, and resistance to micro-bending for improved optical performance. Environmental backshells are available with or without additional strain relief. Styles include plug and wall-mount receptacle.

Connector Technical Characteristics	
Property	Description
Connection	Fiber Optic
Fiber Type	9/125 - 50/125 - 62/125
Insertion Loss [DB]	≤ 1.4 dB
Working Temperature	-25° to +85° C
Flammability	UL94-V0
Insert	Thermoplastic Resin
Shell	Aluminum Alloy; see Material/Finish table for available platings
Mating Cycles	500 Cycles
Environmental Rating	IP67 (mated)
Gaskets and Bushings	Polychloroprene and Silicone Rubber
Optical Contact Technical Characteristics	
Optical Contacts	Zirconia ferrules
	Stainless steel springs
	Zirconia split sleeves
Ferrule Diameter	2.5 mm

How To Order	
Sample Part Number:	IFO B 00 32 -12 M 9 PG F7
Series	IFO B = ITS MIL-DTL-5015 Type fiber optic reverse bayonet coupling
Shell Style	00 = See shell style table
Shell Size	32
No. of Fibers	12
Contact Gender	M = Male F = Female
Fiber Type	9 - Single mode 9/125 50 - Multimode 50/125 62.5 - Multimode 62.5/125
Backshell	PG = Backshells for conduit termination
Material / Finish	Omit for aluminum / cadmium olive drab F6 = Aluminum / black electrodeposited paint; RoHS compliant F7 = Aluminum / black zinc nickel

Connector Shell Styles	
Code	Description
00	Front panel-mount, wall-mount receptacle with through-holes
06	Plug

Available Backshell	
Description	Style
PG Conduit Termination Backshell	

SUPER ITS: HIGH-SPEED, HIGH DATA-RATE

B



RUGGED REVERSE-BAYONET

Super ITS-IFO B High-Speed High-Data Rate Fiber Optic Connectors

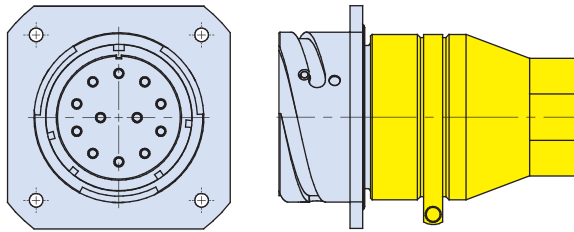


12-Pole Fiber Optic Connector and Backshell

Glenair Super ITS - IFO B Fiber Optic reverse bayonet, shell size 32 connectors offer a twelve-pole fiber optic interconnect solution packaged in a rugged, reverse-bayonet design with integrated environmental sealing. Connectors with accessory threads may be outfitted with a PG environmentally-sealed backshell for conduit termination. Protective covers are available for use at all times when connectors are in unmated condition.

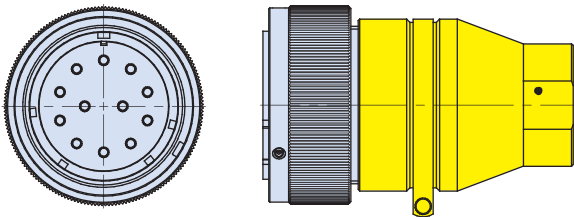
Fiber Optic Contacts	
Contact	Dimensions
Male	
Female	

SHELL STYLE 00: FRONT PANEL-MOUNT, WALL-MOUNT RECEPTACLE WITH THROUGH-HOLES AND PG BACKSHELL FOR CONDUIT TERMINATION



Sample Part Number							
IFO B	00	32	-12	M	9	PG	F7
IFO B Series	Shell Style	Shell Size	No. Of Fibers	Contact Gender	Fiber Type	Backshell	Material / Finish

SHELL STYLE 06: PLUG AND PG BACKSHELL FOR CONDUIT TERMINATION



Sample Part Number							
IFO B	06	32	-12	M	9	PG	F7
IFO B Series	Shell Style	Shell Size	No. Of Fibers	Contact Gender	Fiber Type	Backshell	Material / Finish

Part Number Options
Contact Gender
M = Male F = Female
Fiber Type
9 - Single mode 9/125 50 - Multimode 50/125 62.5 - Multimode 62.5/125
Backshell
PG = Environmentally sealed backshell for conduit termination Omit for none
Material / Finish
Omit for aluminum/cadmium olive drab F6 = Aluminum/black electrodeposited paint; RoHS F7 = Aluminum/black zinc nickel; RoHS

SUPER ITS: HIGH-SPEED, HIGH DATA-RATE

B



REVERSE-BAYONET
**Super ITS - RJ45 SuperSeal™
and Super ITS - USB SuperSeal™**
Connector Selection Guide



Super ITS - SuperSeal™ Connector Overview

Super ITS - SuperSeal field RJ45 and USB connectors provide high-performance sealing, superior grounding / EMC, and a broader range of contact and wire termination solutions in a ruggedized reverse-bayonet connector package. Commercial protocols supported include Cat 5e Ethernet and USB 2.0

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Super ITS - RJ45 SuperSeal™ Connectors

Advanced-performance, precision machined reverse-bayonet connectors for field Ethernet applications providing robust sealing against dust and debris for commercial-grade RJ45 inserts. IP67 rated in the unmated condition. Plug grounding fingers for improved shell-to-shell grounding and EMI protection are standard.

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Super ITS - USB SuperSeal™

Advanced-performance, precision machined reverse-bayonet connectors provide USB 2.0 and USB 1.1 backward-compatibility while providing robust sealing against dust and debris. IP67 rated in the unmated condition with grounding fingers for improved shell-to-shell grounding and EMI protection.

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REVERSE-BAYONET

Super ITS - RJ45 SuperSeal™ Ruggedized Cat 5e Ethernet Connectors



Product Selection Guide

SUPER ITS: RUGGEDIZED RJ45 ETHERNET AND USB



Super ITS - RJ45 SuperSeal Ethernet Connectors
**Connector Overview and Performance, Material and Finish,
Panel Cutouts and Modifications Codes**

PAGE C-2



Super ITS RJ45 SuperSeal 300
**Super ITS 300: Rugged reverse-bayonet plugs and receptacles with easy
plug-and-play cabling to commercial Cat 5e RJ45 cables.**

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Super ITS RJ45 SuperSeal 301
Super ITS 301: crimp contact connectors

PAGE C-9



Super ITS RJ45 SuperSeal 302
Super ITS 302: PC tail connectors

PAGE C-11



Super ITS RJ45 SuperSeal 303
Super ITS 303: solder cup connectors

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Super ITS RJ45 SuperSeal 300H
**Super ITS 300H: connector and ZL cable shield banding adapter with
shrink boot groove**

PAGE C-15



Super ITS RJ45 SuperSeal 300H
**Super ITS 300H: connector pigtail assembly—with ZL banding adapter
and shrink boot**

PAGE C-17



Super ITS RJ45 SuperSeal 300H
**Super ITS 300H: connector with M or PG style adapter for flexible conduit
wire protection applications**

PAGE C-19



Super ITS RJ45 SuperSeal 300H
**Super ITS 300H: connector with cable-sealing backshell and optional cable
shield termination**

PAGE C-21



Super ITS RJ45 SuperSeal 330
Super ITS 330: feedthrough connector with RJ45 jack/jack mating interface

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SUPER ITS - RJ45 SUPERSEAL™

Ruggedized RJ45 MIL-DTL-5015 type reverse- bayonet field connectors for harsh-environment applications

IP67 open-face rated connectors with RJ45 jack, crimp contacts, solder cups, or PC tails

Glenair Super ITS RJ45 SuperSeal Cat 5e Ethernet connectors provide IP67 sealing in the un-mated condition and meet IP68 requirements in the mated condition. Rugged environmental VG95234 type / 5015-intermountable connector interface features quick reverse-bayonet coupling for fast reliable mating in hard-to-reach locations. In addition to reliable environmental sealing, Glenair Super ITS SuperSeal RJ45 solutions are designed for superior EMC performance and are supplied with the industry's broadest range of wire terminations including crimp, solder cup, and PC tail.



VG95234 type connector
with sealed RJ45

- Superior sealing—IP67 unmated—for complete system protection against water, sand and dust
- Highly durable RJ45 designs, including enhanced operating temperature, increased life-cycle, and rugged vibration and shock performance
- Shielded/grounded coupler designs for receptacle connectors
- Crimp, solder-cup, and PC tail, termination options
- RJ45 plug and/or jack interface options available in Cat 5e
- intermateable with other RJ45 field-duty connectors

SUPER ITS: RUGGEDIZED RJ45 ETHERNET AND USB



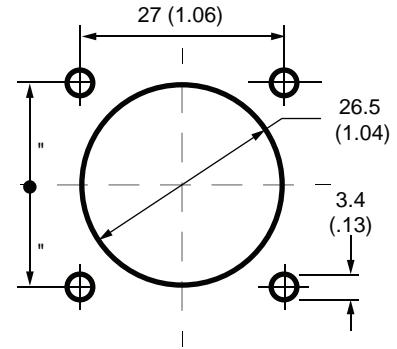
REVERSE-BAYONET Super ITS - RJ45 SuperSeal™ Ruggedized Cat 5e Ethernet Connectors



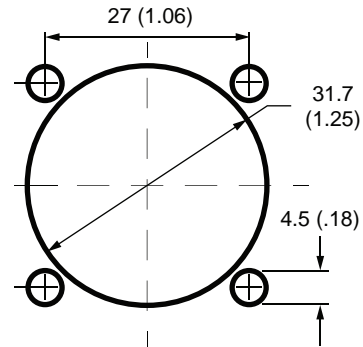
Performance Specifications and Panel Cutouts

SUPER ITS: RUGGEDIZED RJ45 ETHERNET AND USB

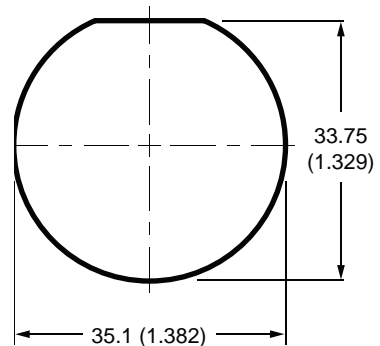
GLENAIR SUPER ITS RJ45 PANEL CUTOUTS FOR SHELL SIZE 18



SQUARE FLANGE
FRONT PANEL MOUNTING



SQUARE FLANGE
REAR PANEL MOUNTING



JAM NUT MOUNT

Super ITS - RJ45 CAT 5e Specifications	
Material and Finish	
Shell/Coupling and Plating	See Material and Finish table below
Contacts	PC tails, solder cup, and crimp contacts: copper alloy, gold plated
RJ45 Coupler Housing	UL94V-0 Compliant ABS or PPS
Grommet, Peripheral Seal, Interfacial Seal, O-ring	Blended fluorosilicone/silicone elastomer, 30% silicone per ZZ-R-765, 70% fluorosilicone per MIL-R-25988
Shell Sizes	17 and 19
Shielding Sleeve	Material: Copper alloy Finish: Nickel
Electrical Specifications	
Data Rate	CAT 5e = 10BASE-T, 100BASE-TX, and 1000BASE-T/1000BASE-TX ¹
Current Rating	Cat 5e, 1.5 Amps
D.W.V.	1000 VDC (700 VAC)
I.R.	500 Mega ohms @ 500 VDC
Frequency	100 MHz, Cat 5e
Wiring	Straight through, Cat 5e
Cabling Length	Up to 100 meters or 100 meters max.
Shield Continuity	Continuous through coupler or continuous coupler to shell
Environmental/Mechanical Performance	
Sealing	IP68 mated condition, IP67 unmated condition
Outgassing	Mod Code 186S meets outgassing requirements per ASTM E 595 and meets NASA level 3 screening for standard reliability Mod Code 928 meets outgassing requirements per UL 94 V-0
Operating Temperature	-40°C to +120°C
Backshell Interface	MIL-DTL-38999, Designator H
Mating System	Triple-start stub ACME
Mating Cycles	500
Vibration	15G sine 10Hz - 2000Hz
Shock	50G - 11ms

Glenair Super ITS Material and Finish Codes						
Code	Material	Finish	Salt Spray	Electrical Conductivity	Operating Temperature	RoHS
F6	Aluminum	Black Epoxy Paint	500 hrs	No	-55° to +125°C	☑
F7	Aluminum	Black Zinc Nickel	500 hrs	Yes	-55° to +125°C	☑
F11	Aluminum	Electroless Nickel	48 hrs	Yes	-55° to +125°C	☑
G3	Aluminum	Cadmium, Olive Drab	500 hrs	Yes	-55° to +125°C	☒



REVERSE-BAYONET

Super ITS - RJ45 SuperSeal™ Ruggedized Cat 5e Ethernet Connectors



Modification Codes

ASTM E595 Outgassing

MOD CODE 186S

- SuperSeal® connectors specially processed to meet ASTM E595 outgassing requirements.
- Modification code specifies special outgassing bakeout processing.
- Meets NASA Screening Level 1 requirements

Space flight equipment requires low-outgassing components in order to prevent degradation to optics and other sensitive instruments. The space industry has adopted a standardized test procedure, ASTM E595, to evaluate outgassing properties. In the ASTM test, material samples are heated to 125° C at a vacuum of 5×10^{-5} torr for 24 hours. The test sample is then weighed to calculate the Total Mass Loss (TML), which may not exceed 1.0% of the total initial mass. A collector plate is used to determine the Collected Volatile Condensable Material (CVCM), which may not exceed 0.1% of the total original specimen mass. SuperSeal™ connectors contain nonmetallic materials such as rubber, plastic, adhesives and potting compounds which can give off gases when subjected to a vacuum or high heat. Unless the connector is specially processed, the TML and CVCM can exceed allowable limits. Glenair is able to offer a bakeout process, 48 hour oven bakeout at 257° F, which assures all materials comply with ASTM E595

Contact factory before ordering.

UL 94 V-0 Flammability Standard

MOD CODE 928

- SuperSeal® connectors specially processed to meet UL 94 V-0 flammability standard

UL 94 V-0, the Standard for Safety of Flammability of Plastic Materials for Parts in Devices and Appliances testing is a plastics flammability standard released by Underwriters Laboratories of the USA. The standard classifies plastics according to how they burn in various orientations and thicknesses. From lowest (least flame-retardant) to highest (most flame-retardant) V-0. Burning stops within 10 seconds on a vertical specimen; specimens may not drip flaming particles.

Contact factory before ordering.

SUPER ITS: RUGGEDIZED RJ45 ETHERNET AND USB



RJ45 CAT 5E ETHERNET Super ITS - RJ45 SuperSeal™ Rugged Field Connectors



Environmental, shielded, reverse-bayonet connectors

Super ITS 300: Rugged reverse-bayonet plugs and receptacles with easy plug-and-play cabling to commercial Cat 5e RJ45 cables.



Super ITS 300 RJ45 SuperSeal, Cat 5e connectors are designed for easy and convenient integration with commercial RJ45 cables. The "300" is quickly cabled up for rugged field use. Simply plug-and-play your RJ45 plug cable into the jack and install your choice of cable sealing backshell accessory. Super ITS 300 SuperSeal Cat 5e connectors support 10BASE-T, 100BASE-TX, and 1000BASE-T/1000BASE-TX data rates. Rugged reverse-bayonet mating provides easy plug-to-jack intermateability while the locking three pin bayonet coupler prevents demating under high shock and high vibration conditions. Super ITS 300 plug connectors have an RJ45 plug in mating interface; all receptacles have RJ45 jacks. Accessory thread (1-20 UNEF) for attachment of backshells and adapters.

SUPER ITS: RUGGEDIZED RJ45 ETHERNET AND USB

Performance Specifications	
Material and Finish	
Material/Finish	See How to Order table
RJ45 Coupler Housing	UL94V-0 Compliant ABS or PPS
Grommet, Peripheral Seal, Interfacial Seal, O-ring	Blended fluorosilicone/silicone elastomer, 30% silicone per ZZ-R-765, 70% fluorosilicone per MIL-R-25988
Shielding Sleeve	Material: Copper alloy Finish: Nickel
Signal / Electrical Specifications	
Data Rate	CAT 5e = 10BASE-T, 100BASE-TX, and 1000BASE-T/1000BASE-TX
Frequency	100 MHz, Cat 5e
Current Rating	Cat 5e, 1.5 Amps
D.W.V.	1000 VDC (700 VAC)
I.R.	500 Mega ohms @ 500 VDC
Cabling Length	Up to 100 meters or 100 meters max.
Mechanical Performance	
Sealing	IP68 mated condition, IP67 unmated condition
Operating Temperature	-40°C to +120°C
Vibration	37 g
Mechanical Shock	300 g's
Mating Cycles	500

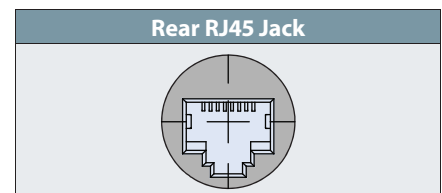
How To Order						
Sample Part Number:	ITS 300	030	G	18	5E	1 F7
Series	ITS 300 = for use with commercial RJ45 plug cables					
Shell Style	See shell style table					
Insert-to-Shell Grounding (Receptacle Only)	G = Recommended for use with shielded cables (omit for plug styles)					
Shell Size	18					
Cable Category	5E = Cat 5E; for Cat 6A applications consult factory					
RJ45 Orientation	1, 2, 3 or 4					
Material / Finish	Omit for aluminum / cadmium olive drab (G3) F7 = Aluminum / black zinc nickel F11 = Aluminum / electroless nickel					

RJ45 Orientation Options			
Plugs			
Code 1	Code 2	Code 3	Code 4
Receptacle			
Code 1	Code 2	Code 3	Code 4

Connector Shell Styles	
Code	Description
030	Rear panel mount, wall mount receptacle with through-mount holes
01	In-line receptacle
070	Rear panel mount, jam-nut receptacle
06	Plug

Super ITS 300 connectors:
06 connector plug shell style has male RJ45 plug at connector mating interface.
030, 01, and 070 connector receptacle shell styles have female RJ45 jack at connector mating interface.

All shell styles have female RJ45 cable jack at rear



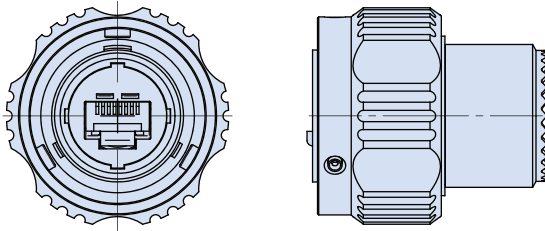


RJ45 CAT 5E ETHERNET Super ITS - RJ45 SuperSeal™ Rugged Field Connectors



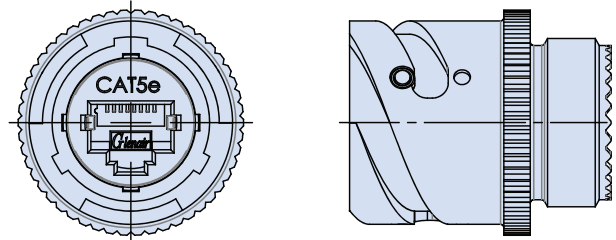
Environmental, shielded, reverse-bayonet connectors

SHELL STYLE 06: PLUG WITH ACCESSORY THREADS



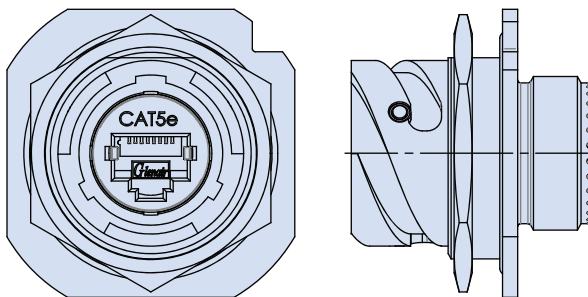
Sample Part Number						
ITS300	06	G	18	5E	1	F7
Series	Shell Style	Ground Omit for none	Shell Size	Cable Type	RJ45 Position 1, 2, 3, 4	Material / Finish G3 (omit) FG, F7, F11

SHELL STYLE 01: INLINE RECEPTACLE WITH ACCESSORY THREADS



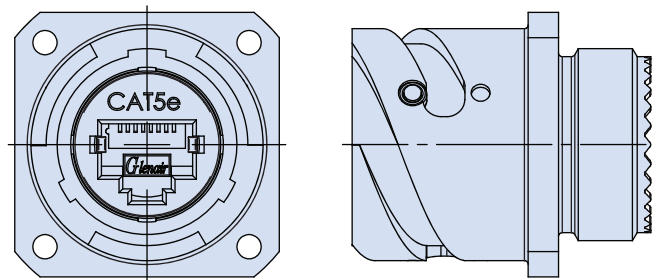
Sample Part Number						
ITS300	01	G	18	5E	1	F7
Series	Shell Style	Ground Omit for none	Shell Size	Cable Type	RJ45 Position 1, 2, 3, 4	Material / Finish G3 (omit) FG, F7, F11

SHELL STYLE 070: REAR PANEL MOUNT JAM-NUT RECEPTACLE WITH ACCESSORY THREADS



Sample Part Number						
ITS300	070	G	18	5E	1	F7
Series	Shell Style	Ground Omit for none	Shell Size	Cable Type	RJ45 Position 1, 2, 3, 4	Material / Finish G3 (omit) FG, F7, F11

SHELL STYLE 030: REAR PANEL MOUNT SQUARE FLANGE RECEPTACLE WITH THROUGH-MOUNT HOLES AND ACCESSORY THREADS



Sample Part Number						
ITS300	030	G	18	5E	1	F7
Series	Shell Style	Ground Omit for none	Shell Size	Cable Type	RJ45 Position 1, 2, 3, 4	Material / Finish G3 (omit) FG, F7, F11

SUPER ITS: RUGGEDIZED RJ45 ETHERNET AND USB



RJ45 CAT 5E ETHERNET Super ITS - RJ45 SuperSeal™ Rugged Field Connectors



Environmental, shielded, reverse-bayonet connectors

Super ITS 301: crimp contact connectors



Super ITS 301, Cat 5e connectors provide easy crimp-and-poke wire termination with industry-standard wire contacts and tools. Super ITS 301 delivers ruggedized high-speed I/O performance for extreme environments and supports 10BASE-T, 100BASE-TX, and 1000BASE-T/1000BASE-TX data rates. Plug connectors use RJ45 plugs while receptacles use RJ45 jacks through the mating interface. Size 22 crimp contacts (M39029/58-360) supplied loose. Rugged reverse-bayonet mating provides reliable intermateability while the locking three pin bayonet coupler prevents demating under high shock and high vibration conditions. Accessory thread (1-20 UNEF) accessory thread for attachment of backshells and adapters.

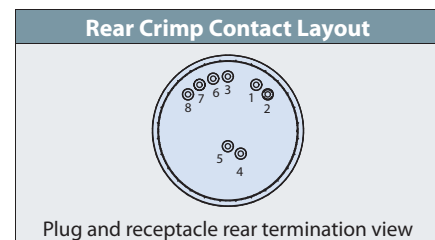
SUPER ITS: RUGGEDIZED RJ45 ETHERNET AND USB

Performance Specifications	
Material and Finish	
Material/Finish	See How to Order table
Crimp Contacts	Copper alloy, gold plated
RJ45 Coupler Housing	UL94V-0 Compliant ABS or PPS
Grommet, Peripheral Seal, Interfacial Seal, O-ring	Blended fluorosilicone/silicone elastomer, 30% silicone per ZZ-R-765, 70% fluorosilicone per MIL-R-25988
Shielding Sleeve	Material: Copper alloy Finish: Nickel
Signal / Electrical Specifications	
Data Rate	CAT 5e = 10BASE-T, 100BASE-TX, and 1000BASE-T/1000BASE-TX
Frequency	100 MHz, Cat 5e
Current Rating	Cat 5e, 1.5 Amps
D.W.V.	1000 VDC (700 VAC)
I.R.	500 Mega ohms @ 500 VDC
Cabling Length	Up to 100 meters or 100 meters max.
Mechanical Performance	
Sealing	IP68 mated condition, IP67 unmated condition
Operating Temperature	-40°C to +120°C
Vibration	37 g
Mechanical Shock	300 g's
Mating Cycles	500

How To Order							
Sample Part Number:	ITS 301	030	G	18	5E	1	F7
Series	ITS 301 = for use with crimp-contact terminated wires						
Shell Style	See shell style table						
Insert-to-Shell Grounding (Receptacle Only)	G = Recommended for use with shielded cables (omit for plug styles)						
Shell Size	18						
Cable Category	5E = Cat 5E; for Cat 6A applications consult factory						
RJ45 Orientation	1, 2, 3 or 4						
Material / Finish	Omit for aluminum / cadmium olive drab (G3) F7 = Aluminum / black zinc nickel F11 = Aluminum / electroless nickel						

RJ45 Orientation Options			
Plugs			
Code 1	Code 2	Code 3	Code 4
Receptacle			
Code 1	Code 2	Code 3	Code 4

Connector Shell Styles	
Code	Description
030	Rear panel mount, wall mount receptacle with through-mount holes
01	In-line receptacle
070	Rear panel mount, jam-nut receptacle
06	Plug



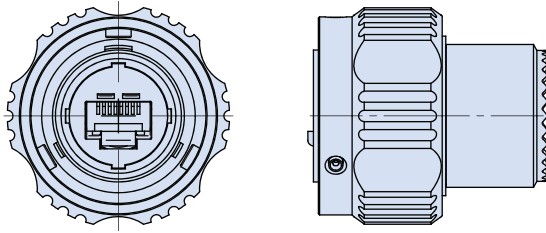


RJ45 CAT 5E ETHERNET Super ITS - RJ45 SuperSeal™ Rugged Field Connectors



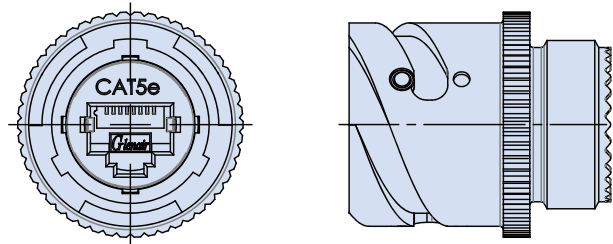
Environmental, shielded, reverse-bayonet connectors

SHELL STYLE 06: PLUG WITH ACCESSORY THREADS



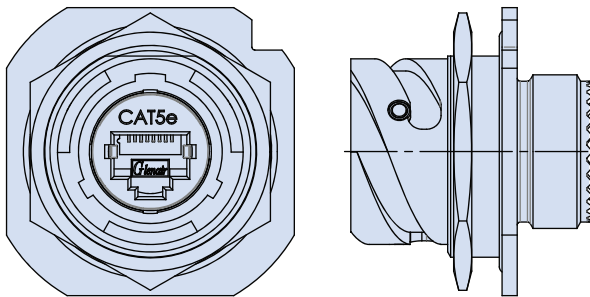
Sample Part Number						
ITS301	06		18	5E	1	F7
Series	Shell Style	Ground (Receptacle Only)	Shell Size	Cable Type	RJ45 Position 1, 2, 3, 4	Material / Finish G3 (omit) FG, F7, F11

SHELL STYLE 01: INLINE RECEPTACLE WITH ACCESSORY THREADS



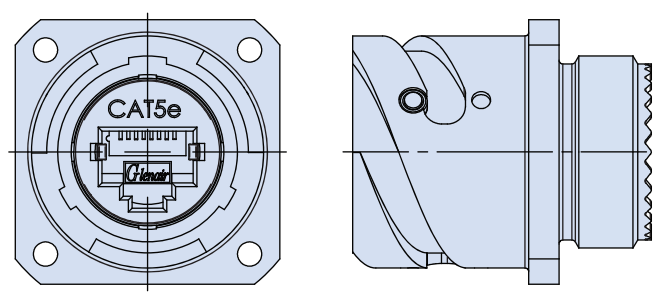
Sample Part Number						
ITS301	01		18	5E	1	F7
Series	Shell Style	Ground (Receptacle Only)	Shell Size	Cable Type	RJ45 Position 1, 2, 3, 4	Material / Finish G3 (omit) FG, F7, F11

SHELL STYLE 070: REAR PANEL MOUNT JAM-NUT RECEPTACLE WITH ACCESSORY THREADS



Sample Part Number						
ITS301	070		18	5E	1	F7
Series	Shell Style	Ground (Receptacle Only)	Shell Size	Cable Type	RJ45 Position 1, 2, 3, 4	Material / Finish G3 (omit) FG, F7, F11

SHELL STYLE 030: REAR PANEL MOUNT SQUARE FLANGE RECEPTACLE WITH THROUGH-MOUNT HOLES AND ACCESSORY THREADS



Sample Part Number						
ITS301	030		18	5E	1	F7
Series	Shell Style	Ground (Receptacle Only)	Shell Size	Cable Type	RJ45 Position 1, 2, 3, 4	Material / Finish G3 (omit) FG, F7, F11

SUPER ITS: RUGGEDIZED RJ45 ETHERNET AND USB



RJ45 CAT 5E ETHERNET Super ITS - RJ45 SuperSeal™ Rugged Field Connectors



Environmental, shielded, reverse-bayonet connectors

Super ITS 302: PC tail connectors



Super ITS 302, Cat 5e connectors are equipped with thru-hole PC tail terminations for direct attachment to printed circuit boards. Reverse-bayonet plug connector is equipped with commercial RJ45 plug. Mating receptacles are equipped with the RJ45 jack. Super ITS 302 Cat 5e connectors deliver ruggedized high-speed I/O performance for extreme environments and support 10BASE-T, 100BASE-TX, and 1000BASE-T/1000BASE-TX data rates. Rugged reverse-bayonet mating provides reliable intermateability while the locking three-pin bayonet coupler prevents demating under high shock and high vibration conditions.

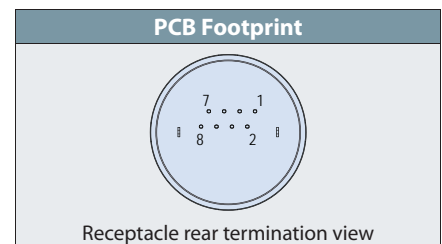
SUPER ITS: RUGGEDIZED RJ45 ETHERNET AND USB

Performance Specifications	
Material and Finish	
Material/Finish	See How to Order table
PC tails	Copper alloy, gold plated
Contacts	Copper alloy, gold plated
RJ45 Coupler Housing	UL94V-0 Compliant ABS or PPS
Grommet, Peripheral Seal, Interfacial Seal, O-ring	Blended fluorosilicone/silicone elastomer, 30% silicone per ZZ-R-765, 70% fluorosilicone per MIL-R-25988
Shielding Sleeve	Material: Copper alloy Finish: Nickel
Signal / Electrical Specifications	
Data Rate	CAT 5e = 10BASE-T, 100BASE-TX, and 1000BASE-T/1000BASE-TX
Frequency	100 MHz, Cat 5e
Current Rating	Cat 5e, 1.5 Amps
D.W.V.	1000 VDC (700 VAC)
I.R.	500 Mega ohms @ 500 VDC
Cabling Length	Up to 100 meters or 100 meters max.
Mechanical Performance	
Sealing	IP68 mated condition, IP67 unmated condition
Operating Temperature	-40°C to +120°C
Vibration	37 g
Mechanical Shock	300 g's
Mating Cycles	500

How To Order						
Sample Part Number:	ITS 302	03	G	18	5E	1 F7
Series	ITS 302 = PC tail connector					
Shell Style	See shell style table					
Insert-to-Shell Grounding	G = Recommended for use with shielded cables					
Shell Size	18					
Cable Category	5E = Cat 5E; for Cat 6A applications consult factory					
RJ45 Orientation	1, 2, 3 or 4					
Material / Finish	Omit for aluminum / cadmium olive drab (G3) F7 = Aluminum / black zinc nickel F11 = Aluminum / electroless nickel					

RJ45 Orientation Options			
Plugs			
Code 1	Code 2	Code 3	Code 4
Receptacle			
Code 1	Code 2	Code 3	Code 4

Connector Shell Styles	
Code	Description
03	Rear panel mount, wall mount receptacle with through-mount holes
07	Rear panel mount, jam-nut receptacle



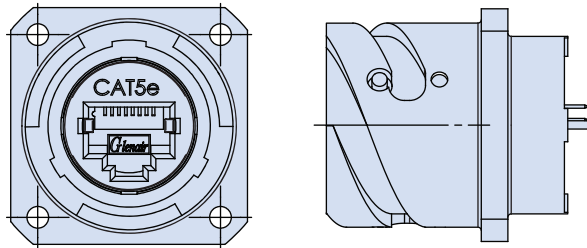


RJ45 CAT 5E ETHERNET Super ITS - RJ45 SuperSeal™ Rugged Field Connectors

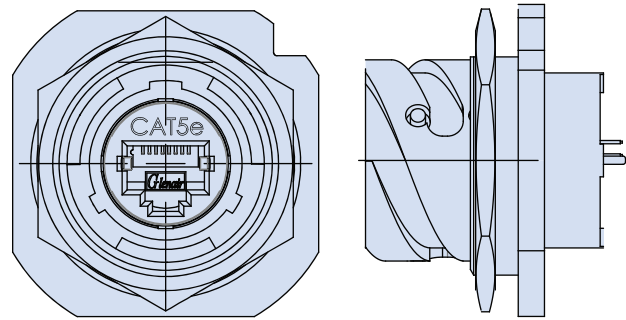


Environmental, shielded, reverse-bayonet connectors

SHELL STYLE 03: REAR PANEL MOUNT, WALL MOUNT RECEPTACLE WITH THROUGH-MOUNT HOLES



SHELL STYLE 07: REAR PANEL MOUNT, JAM-NUT RECEPTACLE



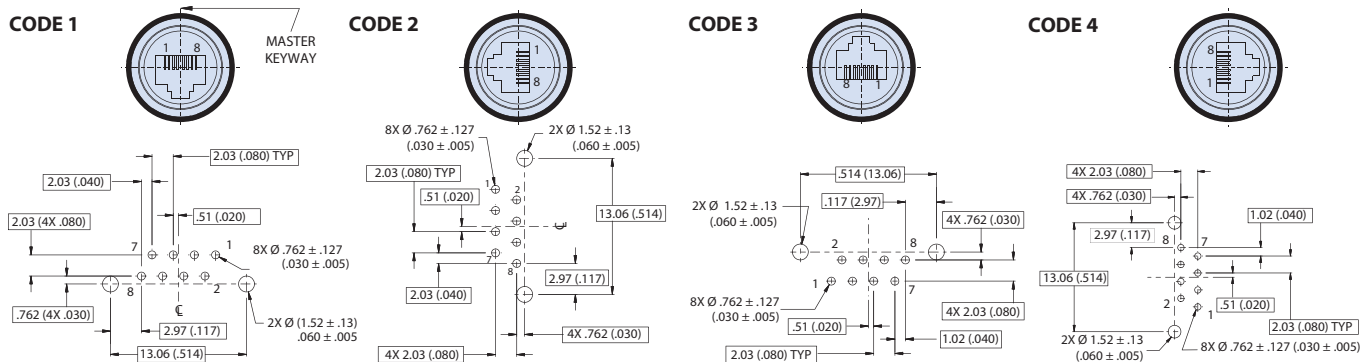
Sample Part Number

ITS302	03	G	18	5E	1	F7
Series	Shell Style	Ground Omit for none	Shell Size	Cable Type	RJ45 Position 1, 2, 3, 4	Material / Finish G3 (omit) FG, F7, F11

Sample Part Number

ITS302	07	G	18	5E	1	F7
Series	Shell Style	Ground Omit for none	Shell Size	Cable Type	RJ45 Position 1, 2, 3, 4	Material / Finish G3 (omit) FG, F7, F11

Recommended PCB Layout (Solder Side Of Board)



SUPER ITS: RUGGEDIZED RJ45 ETHERNET AND USB



RJ45 CAT 5E ETHERNET Super ITS - RJ45 SuperSeal™ Rugged Field Connectors



Environmental, shielded, reverse-bayonet connectors

Super ITS 303: solder cup connectors



Super ITS 303, Cat 5e connectors enable easy solder cup wire termination. Ruggedized, reverse-bayonet plug connectors use RJ45 plugs while receptacles use RJ45 jacks through the mating interface. Super ITS 303 Cat 5e connectors deliver ruggedized high-speed I/O performance for extreme environments and support 10BASE-T, 100BASE-TX, and 1000BASE-T/1000BASE-TX data rates. Rugged reverse bayonet mating provides reliable intermateability while the locking three-pin bayonet coupler prevents demating under high shock and high vibration conditions.

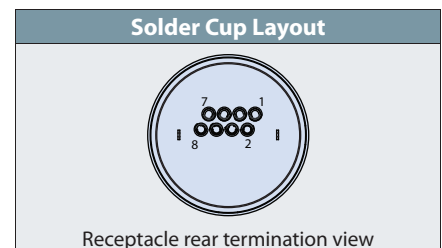
SUPER ITS: RUGGEDIZED RJ45 ETHERNET AND USB

Performance Specifications	
Material and Finish	
Material/Finish	See How to Order table
Solder Cup Contacts	Copper alloy, gold plated
RJ45 Coupler Housing	UL94V-0 Compliant ABS or PPS
Grommet, Peripheral Seal, Interfacial Seal, O-ring	Blended fluorosilicone/silicone elastomer, 30% silicone per ZZ-R-765, 70% fluorosilicone per MIL-R-25988
Shielding Sleeve	Material: Copper alloy Finish: Nickel
Signal / Electrical Specifications	
Data Rate	CAT 5e = 10BASE-T, 100BASE-TX, and 1000BASE-T/1000BASE-TX
Frequency	100 MHz, Cat 5e
Current Rating	Cat 5e, 1.5 Amps
D.W.V.	1000 VDC (700 VAC)
I.R.	500 Mega ohms @ 500 VDC
Cabling Length	Up to 100 meters or 100 meters max.
Mechanical Performance	
Sealing	IP68 mated condition, IP67 unmated condition
Operating Temperature	-40°C to +120°C
Vibration	37 g
Mechanical Shock	300 g's
Mating Cycles	500

How To Order							
Sample Part Number:	ITS 303	03	G	18	5E	1	F7
Series	ITS 303 = Solder cup connectors						
Shell Style	See shell style table						
Insert-to-Shell Grounding	G = Recommended for use with shielded cables						
Shell Size	18						
Cable Category	5E = Cat 5E; for Cat 6A applications consult factory						
RJ45 Orientation	1, 2, 3 or 4						
Material / Finish	Omit for aluminum / cadmium olive drab (G3) F7 = Aluminum / black zinc nickel F11 = Aluminum / electroless nickel						

RJ45 Orientation Options			
Plugs			
Code 1	Code 2	Code 3	Code 4
Receptacle			
Code 1	Code 2	Code 3	Code 4

Connector Shell Styles	
Code	Description
03	Rear panel mount, wall mount receptacle with through-mount holes
07	Rear panel mount, jam-nut receptacle



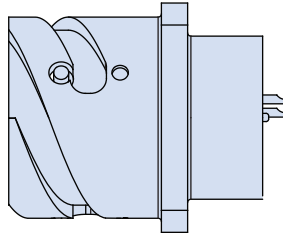
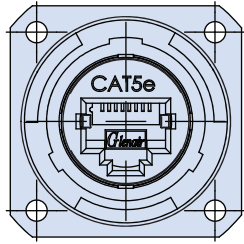


RJ45 CAT 5E ETHERNET
Super ITS - RJ45 SuperSeal™
Rugged Field Connectors

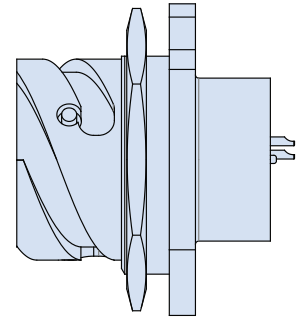
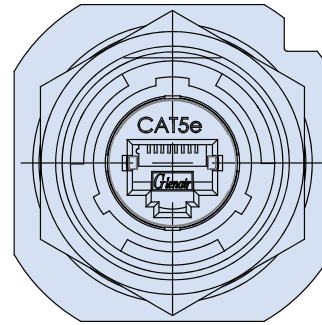


Environmental, shielded, reverse-bayonet connectors

SHELL STYLE 03: REAR PANEL MOUNT, WALL MOUNT RECEPTACLE WITH THROUGH-MOUNT HOLES



SHELL STYLE 07: REAR PANEL MOUNT, JAM-NUT RECEPTACLE



Sample Part Number						
ITS303	03	G	18	5E	1	F7
Series	Shell Style	Ground Omit for none	Shell Size	Cable Type	RJ45 Position 1, 2, 3, 4	Material / Finish G3 (omit) FG, F7, F11

Sample Part Number						
ITS303	07	G	18	5E	1	F7
Series	Shell Style	Ground Omit for none	Shell Size	Cable Type	RJ45 Position 1, 2, 3, 4	Material / Finish G3 (omit) FG, F7, F11

SUPER ITS: RUGGEDIZED RJ45 ETHERNET AND USB



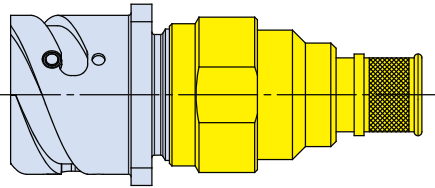


RJ45 CAT 5E ETHERNET Super ITS - RJ45 SuperSeal™ Rugged Field Connectors



Environmental, shielded, reverse-bayonet connectors

Super ITS 300H: connector and ZL cable shield banding adapter with shrink boot groove



Super ITS 300H RJ45 SuperSeal, Cat 5e connectors are designed for easy and convenient integration with commercial RJ45 cables. The "300" is quickly cabled up for rugged field use. Super ITS 300 SuperSeal Cat 5e connectors support 10BASE-T, 100BASE-TX, and 1000BASE-T/1000BASE-TX data rates. Super ITS 300 plug connectors have an RJ45 plug in mating interface; all receptacles have RJ45 jacks. Incorporated ZL banding backshell is designed for termination of braided cable shielding and includes a shrink boot groove for application of flexible polyolefin short-profile boots. Available shrink boots are resistant to fuels, oils and solvents and specifically designed to be applied to low temperature rated CAT5e cables.

SUPER ITS: RUGGEDIZED RJ45 ETHERNET AND USB

Performance Specifications	
Material and Finish	
Material/Finish	See How to Order table
RJ45 Coupler Housing	UL94V-0 Compliant ABS or PPS
Grommet, Peripheral Seal, Interfacial Seal, O-ring	Blended fluorosilicone/silicone elastomer, 30% silicone per ZZ-R-765, 70% fluorosilicone per MIL-R-25988
Shielding Sleeve	Material: Copper alloy Finish: Nickel
Signal / Electrical Specifications	
Data Rate	CAT 5e = 10BASE-T, 100BASE-TX, and 1000BASE-T/1000BASE-TX
Frequency	100 MHz, Cat 5e
Current Rating	Cat 5e, 1.5 Amps
D.W.V.	1000 VDC (700 VAC)
I.R.	500 Mega ohms @ 500 VDC
Cabling Length	Up to 100 meters or 100 meters max.
Mechanical Performance	
Sealing	IP68 mated condition, IP67 unmated condition
Operating Temperature	-40°C to +120°C
Vibration	37 g
Mechanical Shock	300 g's
Mating Cycles	500

How To Order								
Sample Part Number:	ITS 300H	03	G	18	5E	1	ZL	F7
Series	ITS 300H = 300 Series Connector and Banding Backshell Assembly							
Shell Style	See shell style table							
Insert-to-Shell Grounding (Receptacle Only)	G = Recommended for use with shielded cables (omit for plug styles)							
Shell Size	18							
Cable Category	5E = Cat 5E; for Cat 6A applications consult factory							
RJ45 Orientation	1, 2, 3 or 4							
Adapter	ZL = Adapter with band platform and shrink boot groove for braid termination and shrink boot application; see below for shrink boot.							
Material / Finish	Omit for aluminum / cadmium olive drab (G3) F7 = Aluminum / black zinc nickel F11 = Aluminum / electroless nickel							

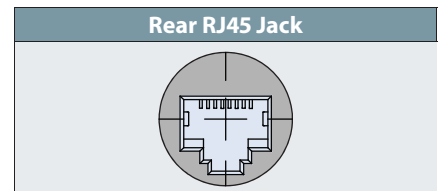
Connector Shell Styles	
Code	Description
030	Rear panel mount, wall mount receptacle with through-mount holes
01	In-line receptacle
070	Rear panel mount, jam-nut receptacle
06	Plug

HEAT SHRINK BOOT P/N : 770-004S903W2

Must be ordered separately

Type 9 flexible polyolefin short profile boots have an operating temperature range of -40°C to 100°C and provide resistance to fuels, oils and solvents. Boots specifically designed for heat shrink application to low temperature rated CAT5e and USB cables.

RJ45 Orientation Options			
Plugs			
Code 1	Code 2	Code 3	Code 4
Receptacle			
Code 1	Code 2	Code 3	Code 4



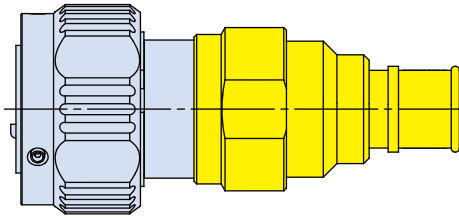


RJ45 CAT 5E ETHERNET Super ITS - RJ45 SuperSeal™ Rugged Field Connectors



Environmental, shielded, reverse-bayonet connectors

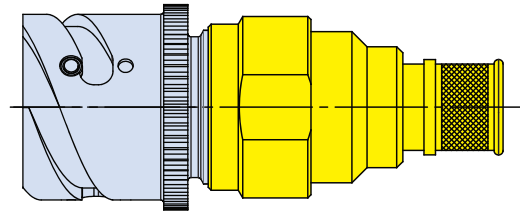
SHELL STYLE 06: PLUG AND ADAPTER WITH CABLE SHIELD TERMINATION AND SHRINK BOOT GROOVE



Sample Part Number

ITS300H	06	G	18	5E	1	ZL	F7
Series	Shell Style	Ground Omit for none	Shell Size	Cable Type	RJ45 Position 1, 2, 3, 4	Adapter ZL	Material / Finish G3 (omit) FG, F7, F11

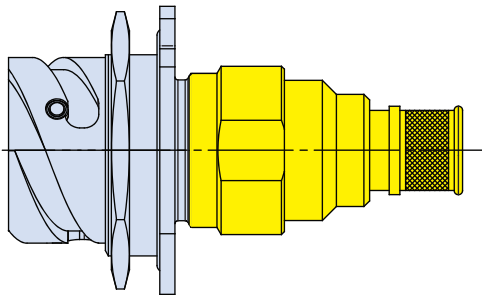
SHELL STYLE 01: INLINE RECEPTACLE WITH ACCESSORY THREADS



Sample Part Number

ITS300H	01	G	18	5E	1	ZL	F7
Series	Shell Style	Ground Omit for none	Shell Size	Cable Type	RJ45 Position 1, 2, 3, 4	Adapter ZL	Material / Finish G3 (omit) FG, F7, F11

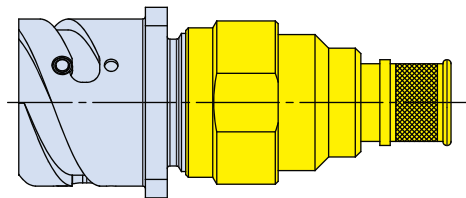
SHELL STYLE 070: REAR PANEL MOUNT JAM- NUT RECEPTACLE WITH ACCESSORY THREADS



Sample Part Number

ITS300H	070	G	18	5E	1	ZL	F7
Series	Shell Style	Ground Omit for none	Shell Size	Cable Type	RJ45 Position 1, 2, 3, 4	Adapter ZL	Material / Finish G3 (omit) FG, F7, F11

SHELL STYLE 030: REAR PANEL MOUNT SQUARE FLANGE RECEPTACLE WITH THROUGH-MOUNT HOLES AND ACCESSORY THREADS



Sample Part Number

ITS300H	030	G	18	5E	1	ZL	F7
Series	Shell Style	Ground Omit for none	Shell Size	Cable Type	RJ45 Position 1, 2, 3, 4	Adapter ZL	Material / Finish G3 (omit) FG, F7, F11

SUPER ITS: RUGGEDIZED RJ45 ETHERNET AND USB

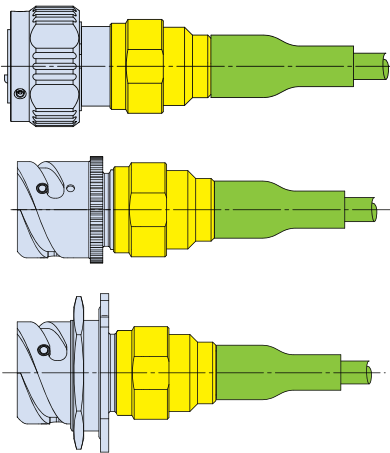


RJ45 CAT 5E ETHERNET Super ITS - RJ45 SuperSeal™ Rugged Field Connectors



Environmental, shielded, reverse-bayonet connectors

SUPER ITS: RUGGEDIZED RJ45 ETHERNET AND USB



Super ITS 300H: connector pigtail assembly— with ZL banding adapter and shrink boot

Super ITS 300H RJ45 SuperSeal, Cat 5e connectors are designed for easy and convenient integration with commercial RJ45 cables. Super ITS 300 plug connectors have an RJ45 plug in mating interface; all receptacles have RJ45 jacks. This pigtail assembly is factory-built with your choice of Super ITS 300 series connector, single-ended wire pigtail, cable shield band adapter, and environmental shrink boot. Super ITS 300 SuperSeal Cat 5e connectors support 10BASE-T, 100BASE-TX, and 1000BASE-T/1000BASE-TX data rates. Fully-recovered environmental shrink boots are resistant to fuels, oils, and solvents and specifically designed to be applied to provided low temperature rated CAT5e cable.

Performance Specifications	
Material and Finish	
Material/Finish	See How to Order table
RJ45 Coupler Housing	UL94V-0 Compliant ABS or PPS
Grommet, Peripheral Seal, Interfacial Seal, O-ring	Blended fluorosilicone/silicone elastomer, 30% silicone per ZZ-R-765, 70% fluorosilicone per MIL-R-25988
Shielding Sleeve	Material: Copper alloy Finish: Nickel
Signal / Electrical Specifications	
Data Rate	CAT 5e = 10BASE-T, 100BASE-TX, and 1000BASE-T/1000BASE-TX
Frequency	100 MHz, Cat 5e
Current Rating	Cat 5e, 1.5 Amps
D.W.V.	1000 VDC (700 VAC)
I.R.	500 Mega ohms @ 500 VDC
Cabling Length	Up to 100 meters or 100 meters max.
Mechanical Performance	
Sealing	IP68 mated condition, IP67 unmated condition
Operating Temperature	-40°C to +120°C
Vibration	37 g
Mechanical Shock	300 g's
Mating Cycles	500

How To Order	
Sample Part Number:	ITS 300H 03 G 18 5E 1 ZL .5 F7
Series	ITS 300H = 300 series connector and backshell / boot assembly
Shell Style	See shell style table
Insert-to-Shell Grounding (Receptacle Only)	G = Recommended for use with shielded cables (omit for plug styles)
Shell Size	18
Pigtail Cable	5E = Cat 5E; for Cat 6A applications consult factory
RJ45 Orientation	1, 2, 3 or 4
Adapter	ZL = Integrated adapter type (banding with shrink boot)
Cable Length	.5 = .5 meter (20 inch) increments
Material / Finish	Omit for aluminum / cadmium olive drab (G3) F7 = Aluminum / black zinc nickel F11 = Aluminum / electroless nickel

Connector Shell Styles	
Code	Description
030	Rear panel mount, wall mount receptacle with through-mount holes
01	In-line receptacle
070	Rear panel mount, jam-nut receptacle
06	Plug

RJ45 Orientation Options			
Plugs			
Code 1	Code 2	Code 3	Code 4
Receptacle			
Code 1	Code 2	Code 3	Code 4

HEAT SHRINK BOOT P/N : 770-004S903W2

Supplied with pigtail assembly

Type 9 flexible polyolefin short profile boots have an operating temperature range of -40°C to 100°C and provide resistance to fuels, oils and solvents. Boots specifically designed for heat shrink application to low temperature rated CAT5e and USB cables.

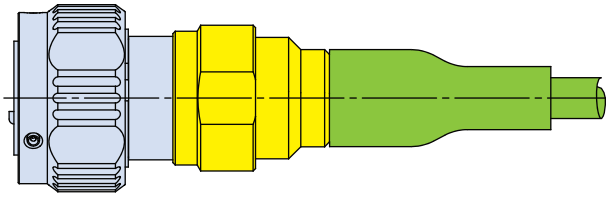


RJ45 CAT 5E ETHERNET Super ITS - RJ45 SuperSeal™ Rugged Field Connectors



Environmental, shielded, reverse-bayonet connectors

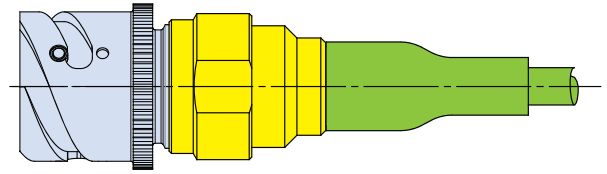
SHELL STYLE 06: PLUG ASSEMBLY WITH TERMINATED SHIELDED CABLE PIGTAIL AND HEAT SHRINK BOOT



Sample Part Number

ITS300H	06	G	18	5E	1	ZL	.5	F7
Series	Shell Style	Ground Omit for none	Shell Size	Cable Type	RJ45 Position 1, 2, 3, 4	Adapter ZL	Cable Length .5 = 20 in (.5m)	Material / Finish G3 (omit) FG, F7, F11

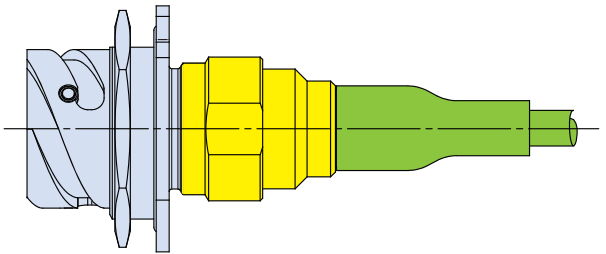
SHELL STYLE 01: INLINE RECEPTACLE ASSEMBLY WITH TERMINATED SHIELDED CABLE PIGTAIL AND HEAT SHRINK BOOT



Sample Part Number

ITS300H	01	G	18	5E	1	ZL	.5	F7
Series	Shell Style	Ground Omit for none	Shell Size	Cable Type	RJ45 Position 1, 2, 3, 4	Adapter ZL	Cable Length .5 = 20 in (.5m)	Material / Finish G3 (omit) FG, F7, F11

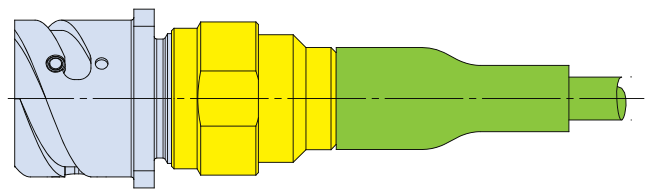
SHELL STYLE 070: REAR PANEL MOUNT JAM- NUT RECEPTACLE WITH TERMINATED SHIELDED CABLE PIGTAIL AND HEAT SHRINK BOOT



Sample Part Number

ITS300H	070	G	18	5E	1	ZL	.5	F7
Series	Shell Style	Ground Omit for none	Shell Size	Cable Type	RJ45 Position 1, 2, 3, 4	Adapter ZL	Cable Length .5 = 20 in (.5m)	Material / Finish G3 (omit) FG, F7, F11

SHELL STYLE 030: REAR PANEL MOUNT, WALL MOUNT RECEPTACLE WITH TERMINATED SHIELDED CABLE PIGTAIL AND HEAT SHRINK BOOT



Sample Part Number

ITS300H	030	G	18	5E	1	ZL	.5	F7
Series	Shell Style	Ground Omit for none	Shell Size	Cable Type	RJ45 Position 1, 2, 3, 4	Adapter ZL	Cable Length .5 = 20 in (.5m)	Material / Finish G3 (omit) FG, F7, F11

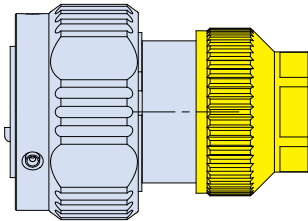
SUPER ITS: RUGGEDIZED RJ45 ETHERNET AND USB



RJ45 CAT 5E ETHERNET Super ITS - RJ45 SuperSeal™ Rugged Field Connectors



Environmental, shielded, reverse-bayonet connectors



Super ITS 300H: connector with M or PG style adapter for flexible conduit wire protection applications

Super ITS 300H RJ45 SuperSeal, Cat 5e connectors are designed for easy and convenient integration with commercial RJ45 cables. Super ITS 300 plug connectors have an RJ45 plug in mating interface; all receptacles have RJ45 jacks. This connector / backshell assembly is offered with your choice of either M (metric thread) or PG adapter for ready attachment of flexible wire protection conduit. Super ITS 300 SuperSeal Cat 5e connectors support 10BASE-T, 100BASE-TX, and 1000BASE-T/1000BASE-TX data rates.

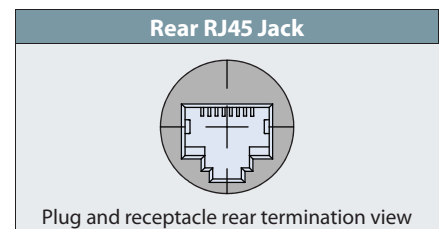
SUPER ITS: RUGGEDIZED RJ45 ETHERNET AND USB

Performance Specifications	
Material and Finish	
Material/Finish	See How to Order table
RJ45 Coupler Housing	UL94V-0 Compliant ABS or PPS
Grommet, Peripheral Seal, Interfacial Seal, O-ring	Blended fluorosilicone/silicone elastomer, 30% silicone per ZZ-R-765, 70% fluorosilicone per MIL-R-25988
Shielding Sleeve	Material: Copper alloy Finish: Nickel
Signal / Electrical Specifications	
Data Rate	CAT 5e = 10BASE-T, 100BASE-TX, and 1000BASE-T/1000BASE-TX
Frequency	100 MHz, Cat 5e
Current Rating	Cat 5e, 1.5 Amps
D.W.V.	1000 VDC (700 VAC)
I.R.	500 Mega ohms @ 500 VDC
Cabling Length	Up to 100 meters or 100 meters max.
Mechanical Performance	
Sealing	IP68 mated condition, IP67 unmated condition
Operating Temperature	-40°C to +120°C
Vibration	37 g
Mechanical Shock	300 g's
Mating Cycles	500

How To Order							
Sample Part Number:	ITS 300H	03	G	18	5E	1	ZL F7
Series	ITS 300H = 300 series connector with conduit adapter						
Shell Style	See shell style table						
Insert-to-Shell Grounding (Receptacle Only)	G = Recommended for use with shielded conduit (omit for plug styles)						
Shell Size	18						
Cable Category	5E = Cat 5E; for Cat 6A applications consult factory						
RJ45 Orientation	1, 2, 3 or 4						
Backshell	M = M16 x 1.5 PG = PG9						
Material / Finish	Omit for aluminum / cadmium olive drab (G3) F7 = Aluminum / black zinc nickel F11 = Aluminum / electroless nickel						

Connector Shell Styles	
Code	Description
030	Rear panel mount, wall mount receptacle with through-mount holes
01	In-line receptacle
070	Rear panel mount, jam-nut receptacle
06	Plug

RJ45 Orientation Options			
Plugs			
Code 1	Code 2	Code 3	Code 4
Receptacle			
Code 1	Code 2	Code 3	Code 4



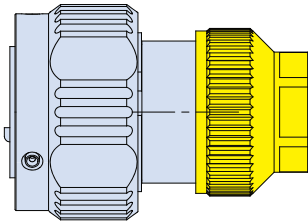


RJ45 CAT 5E ETHERNET Super ITS - RJ45 SuperSeal™ Rugged Field Connectors



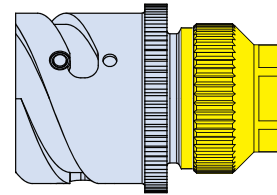
Environmental, shielded, reverse-bayonet connectors

SHELL STYLE 06: PLUG AND INTERNAL THREADED BACKSHELL



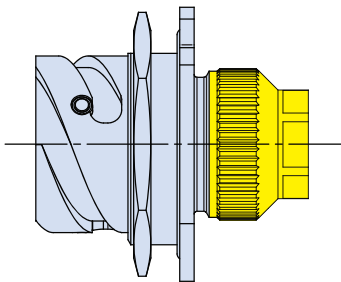
Sample Part Number							
ITS300H	06		18	5E	1	M	F7
Series	Shell Style	Ground (N/A)	Shell Size	Cable Type	RJ45 Position 1, 2, 3, 4	Backshell M or PG	Material / Finish G3 (omit FG, F7, F11)

SHELL STYLE 01: INLINE RECEPTACLE AND INTERNAL THREADED BACKSHELL



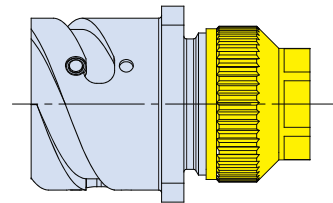
Sample Part Number							
ITS300H	01	G	18	5E	1	ZL	F7
Series	Shell Style	Ground Omit for none	Shell Size	Cable Type	RJ45 Position 1, 2, 3, 4	Backshell M or PG	Material / Finish G3 (omit FG, F7, F11)

SHELL STYLE 070: REAR PANEL MOUNT, JAM- NUT RECEPTACLE AND INTERNAL THREADED BACKSHELL



Sample Part Number							
ITS300H	070	G	18	5E	1	ZL	F7
Series	Shell Style	Ground Omit for none	Shell Size	Cable Type	RJ45 Position 1, 2, 3, 4	Backshell M or PG	Material / Finish G3 (omit FG, F7, F11)

SHELL STYLE 030: REAR PANEL MOUNT, WALL MOUNT RECEPTACLE AND INTERNAL THREADED BACKSHELL



Sample Part Number							
ITS300H	030	G	18	5E	1	ZL	F7
Series	Shell Style	Ground Omit for none	Shell Size	Cable Type	RJ45 Position 1, 2, 3, 4	Backshell M or PG	Material / Finish G3 (omit FG, F7, F11)

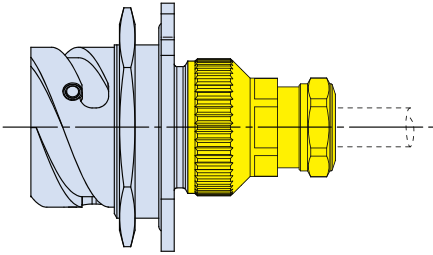
SUPER ITS: RUGGEDIZED RJ45 ETHERNET AND USB



RJ45 CAT 5E ETHERNET Super ITS - RJ45 SuperSeal™ Rugged Field Connectors



Environmental, shielded, reverse-bayonet connectors



Super ITS 300H: connector with cable-sealing backshell and optional cable shield termination

Super ITS 300H RJ45 SuperSeal, Cat 5e connectors are designed for easy and convenient integration with commercial RJ45 cables. Super ITS 300 plug connectors have an RJ45 plug in mating interface; all receptacles have RJ45 jacks. This connector / backshell assembly is offered with your choice of environmental cable sealing backshells with or without additional cable shield termination feature. Super ITS 300 SuperSeal Cat 5e connectors support 10BASE-T, 100BASE-TX, and 1000BASE-T/1000BASE-TX data rates.

SUPER ITS: RUGGEDIZED RJ45 ETHERNET AND USB

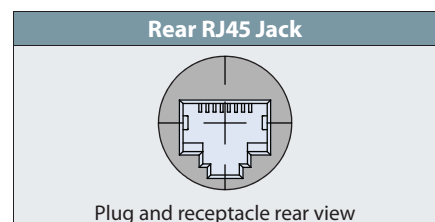
Performance Specifications	
Material and Finish	
Material/Finish	See How to Order table
RJ45 Coupler Housing	UL94V-0 Compliant ABS or PPS
Grommet, Peripheral Seal, Interfacial Seal, O-ring	Blended fluorosilicone/silicone elastomer, 30% silicone per ZZ-R-765, 70% fluorosilicone per MIL-R-25988
Shielding Sleeve	Material: Copper alloy Finish: Nickel
Signal / Electrical Specifications	
Data Rate	CAT 5e = 10BASE-T, 100BASE-TX, and 1000BASE-T/1000BASE-TX
Frequency	100 MHz, Cat 5e
Current Rating	Cat 5e, 1.5 Amps
D.W.V.	1000 VDC (700 VAC)
I.R.	500 Mega ohms @ 500 VDC
Cabling Length	Up to 100 meters or 100 meters max.
Mechanical Performance	
Sealing	IP68 mated condition, IP67 unmated condition
Operating Temperature	-40°C to +120°C
Vibration	37 g
Mechanical Shock	300 g's
Mating Cycles	500

How To Order									
Sample Part Number:	ITS 300H	03	G	18	5E	1	MS1	.05	F7
Series	ITS 300H = Cat 5e Connectors								
Shell Style	See shell style table								
Insert-to-Shell Grounding (Receptacle Only)	G = Recommended for use with shielded cables (omit for plug styles)								
Shell Size	18								
Cable Category	5E = Cat 5E; for Cat 6A applications consult factory								
RJ45 Orientation	1, 2, 3 or 4								
Backshell	M1, M2, MS1, MS2; see cable entry table for cable range and shielding options								
Cable Length	0.5 = 0.5 meter (20 inch) increments; omit for none								
Material / Finish	Omit for aluminum / cadmium olive drab (G3) F6 = Aluminum / black electrodeposited paint F7 = Aluminum / black zinc nickel F11 = Aluminum / electroless nickel								

Connector Shell Styles	
Code	Description
030	Rear panel mount, wall mount receptacle with through-mount holes
01	In-line receptacle
070	Rear panel mount, jam-nut receptacle
06	Plug

Cable Entry		
Type	Cable Range in(mm)	Shielded
M1	.24-.31 (6 - 8)	No
M2	.31-.40 (8 - 10)	No
MS1	.24-.31 (6 - 8)	Yes
MS2	.31-.40 (8 - 10)	Yes

RJ45 Orientation Options			
Plugs			
Code 1	Code 2	Code 3	Code 4
Receptacle			
Code 1	Code 2	Code 3	Code 4



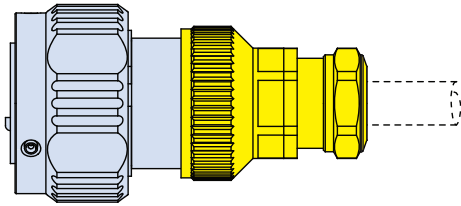


RJ45 CAT 5E ETHERNET Super ITS - RJ45 SuperSeal™ Rugged Field Connectors

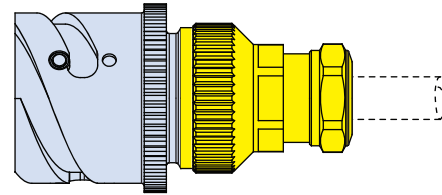


Environmental, shielded, reverse-bayonet connectors

SHELL STYLE 06: PLUG AND INTERNAL THREADED BACKSHELL WITH CABLE GLAND



SHELL STYLE 01: INLINE RECEPTACLE AND INTERNAL THREADED BACKSHELL WITH CABLE GLAND



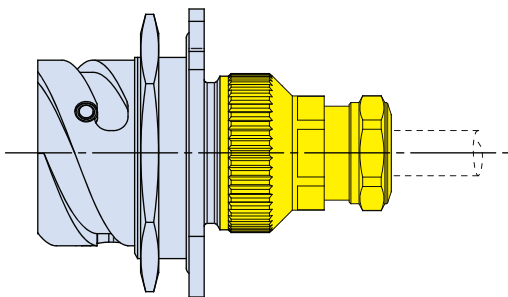
Sample Part Number

ITS300H	06	G	18	5E	1	MS1	0.5	F7
Series	Shell Style	Ground Omit for none	Shell Size	Cable Type	RJ45 Position 1, 2, 3, 4	Back-shell M1, M2, MS1 or MS2	Cable Length .5 = .5 M	Material / Finish G3 (omit) FG, F7, F11

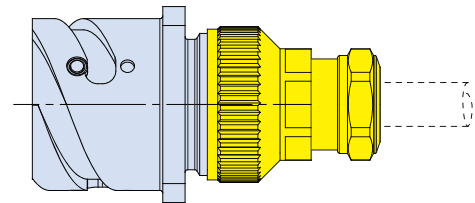
Sample Part Number

ITS300H	01	G	18	5E	1	MS1	0.5	F7
Series	Shell Style	Ground Omit for none	Shell Size	Cable Type	RJ45 Position 1, 2, 3, 4	Back-shell M1, M2, MS1 or MS2	Cable Length .5 = .5 M	Material / Finish G3 (omit) FG, F7, F11

SHELL STYLE 070: REAR PANEL MOUNT, JAM- NUT RECEPTACLE AND INTERNAL THREADED BACKSHELL WITH CABLE GLAND



SHELL STYLE 030: REAR PANEL MOUNT, WALL MOUNT RECEPTACLE AND INTERNAL THREADED BACKSHELL WITH CABLE GLAND



Sample Part Number

ITS300H	070	G	18	5E	1	MS1	0.5	F7
Series	Shell Style	Ground Omit for none	Shell Size	Cable Type	RJ45 Position 1, 2, 3, 4	Back-shell M1, M2, MS1 or MS2	Cable Length .5 = .5 M	Material / Finish G3 (omit) FG, F7, F11

Sample Part Number

ITS300H	030	G	18	5E	1	MS1	0.5	F7
Series	Shell Style	Ground Omit for none	Shell Size	Cable Type	RJ45 Position 1, 2, 3, 4	Back-shell M1, M2, MS1 or MS2	Cable Length .5 = .5 M	Material / Finish G3 (omit) FG, F7, F11

SUPER ITS: RUGGEDIZED RJ45 ETHERNET AND USB



RJ45 CAT 5E ETHERNET Super ITS - RJ45 SuperSeal™ Rugged Field Connectors



Environmental, shielded, reverse-bayonet connectors



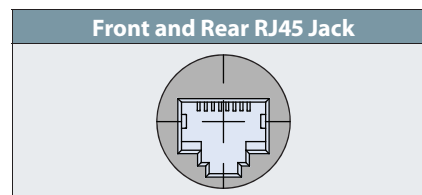
Super ITS 330: feedthrough connector with RJ45 jack/jack mating interface

Super ITS 330 RJ45 SuperSeal, Cat 5e feedthrough connectors mate with any Super ITS 300 or 301 series plug connector. Super ITS 330 SuperSeal Cat 5e feedthrough connectors support 10BASE-T, 100BASE-TX, and 1000BASE-T/1000BASE-TX data rates. Rugged reverse-bayonet mating on both sides provides easy plug-to-jack intermateability while the locking three pin bayonet coupler prevents demating under high shock and high vibration conditions.

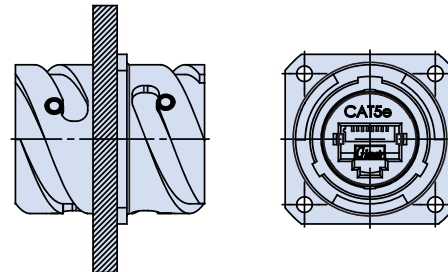
SUPER ITS: RUGGEDIZED RJ45 ETHERNET AND USB

Performance Specifications	
Material and Finish	
Material/Finish	See How to Order table
RJ45 Coupler Housing	UL94V-0 Compliant ABS or PPS
Grommet, Peripheral Seal, Interfacial Seal, O-ring	Blended fluorosilicone/ silicone elastomer, 30% silicone per ZZ-R-765, 70% fluorosilicone per MIL-R-25988
Shielding Sleeve	Material: Copper alloy Finish: Nickel
Signal / Electrical Specifications	
Data Rate	CAT 5e = 10BASE-T, 100BASE-TX, and 1000BASE-T/1000BASE-TX
Frequency	100 MHz, Cat 5e
Current Rating	Cat 5e, 1.5 Amps
D.W.V.	1000 VDC (700 VAC)
I.R.	500 Mega ohms @ 500 VDC
Cabling Length	Up to 100 meters or 100 meters max.
Mechanical Performance	
Sealing	IP68 mated condition, IP67 unmated condition
Operating Temperature	-40°C to +120°C
Vibration	37 g
Mechanical Shock	300 g's
Mating Cycles	500

How To Order						
Sample Part Number:	ITS 330	03PP	18	5E	1	F7
Series	ITS 330 = Cat 5e Connectors					
Shell Style	03PP = Feedthrough connector					
Shell Size	18					
Cable Category	5E = Cat 5E; for Cat 6A applications consult factory					
RJ45 Orientation	1, 2, 3 or 4					
Material / Finish	Omit for aluminum / cadmium olive drab (G3) F6 = Aluminum / black electrodeposited paint F7 = Aluminum / black zinc nickel F11 = Aluminum / electroless nickel					



RJ45 Orientation Options			
Receptacle			
Code 1	Code 2	Code 3	Code 4





Glenair.



SUPERSEAL™

Ruggedized RJ45 and USB connectors for applications as diverse as military ground vehicles to passenger IFE

IP67 open-face, robust insert-to-shell grounding, complete range of wire, cable, and circuit board terminations

- Superior sealing—IP67 unmated—for complete system protection against water, sand and dust
- Highly durable RJ45 design, including enhanced operating temperature, increased life-cycle, and rugged vibration and shock performance
- Shielded/grounded coupler designs in both receptacle and plug connectors
- Crimp, solder-cup, PC tail, and Quadrax contact/wire termination options
- RJ45 plug and/or jack interface options available in Cat 5e
- MIL-DTL-38999 type versions intermateable with other RJ45 field-duty connectors



MIL-DTL-38999 Series III with sealed RJ45



MIL-DTL-38999 Series III with RJ45 USB cable assemblies



High-capacity, high-speed USB data stick

SUPER ITS: RUGGEDIZED RJ45 ETHERNET AND USB





COMPATIBLE WITH USB 2.0 AND 1.1
Super ITS - USB Type A SuperSeal™
Rugged Field Connectors



Environmental, shielded, reverse-bayonet connectors

SUPER ITS: RUGGEDIZED RJ45 ETHERNET AND USB



Super ITS - SuperSeal USB 2.0 Connectors
**Connector Overview and Performance, Material and Finish,
 Panel Cutouts and Modifications Codes**

PAGE C-25



ITS 340
USB 2.0 Type A connector with rear USB jack

PAGE C-28



ITS 345
USB 2.0 Type A connector with crimp contacts

PAGE C-30



ITS 342
USB 2.0 Type A connector with PC tails

PAGE C-32



ITS 343
USB 2.0 Type A Connector with Solder Cups

PAGE C-34



ITS 340H
**USB 2.0 Type A connector with rear USB jack and adapter with shield
 termination platform and shrink boot groove**

PAGE C-36



ITS 340H
**USB 2.0 Type A connector with rear USB jack and EMI backshell with
 pre-installed Cat 5e cable and shrink boot; loose wire end is unterminated**

PAGE C-38



ITS 340H
**USB 2.0 Type A connector with rear USB jack and metric or PG thread
 backshell for conduit attachment**

PAGE C-40



ITS 340H
**USB 2.0 Type A connector with rear RJ45 jack and backshell with metallic
 cable gland with optional shielding and pigtails**

PAGE C-42



ITS 370
**USB 2.0 Type A feedthrough connector with RJ45 jacks on both sides for
 connectorized mating on both sides of a bulkhead**

PAGE C-44



USB
COMPATIBLE



SUPER ITS - USB SUPERSEAL

Ruggedized USB Type A MIL-DTL-5015 reverse-bayonet field connectors for harsh- environment applications

IP67 open-face rated connectors for wire and printed circuit board terminations plus pigtail cable assemblies.



Features:

- Superior sealing—IP68 mated, IP67 unmated—for complete protection against water, sand and dust
- Highly durable USB 2.0 Type A-equipped designs, with enhanced operating temperature, increased life-cycle, and rugged vibration and shock performance
- Crimp, solder-cup, USB jack, and PC tail termination options



Rugged reverse-bayonet connector with USB Type A commercial connector interface



Complete range of connector configurations including bulkhead feedthrus



Wide range of wire termination options (crimp contact version shown)

SUPER ITS: RUGGEDIZED RJ45 ETHERNET





COMPATIBLE WITH USB 2.0 AND 1.1 Super ITS - USB Type A SuperSeal™ Rugged Field Connectors



Environmental, shielded, reverse-bayonet connectors

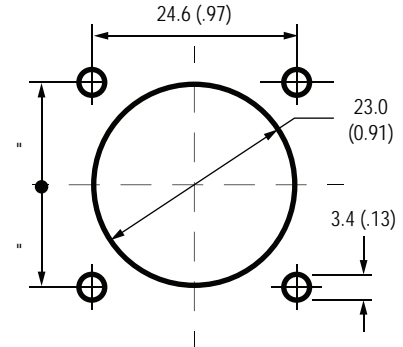
Super ITS - USB 2.0 Type A Specifications

Material and Finish	
Shell/Coupling and Plating	Complete list of options available in the Material and Finish Options portion of this section
Contacts	PC tails, solder cup, and crimp contacts: copper alloy, gold plated
USB Coupler Housing	UL94V-0 Compliant ABS or PPS
Grommet, Peripheral Seal, Interfacial Seal, O-ring	Blended fluorosilicone/silicone elastomer, 30% silicone per ZZ-R-765, 70% fluorosilicone per MIL-R-25988
Shell Size	16
Electrical Specifications	
Data Rate	480 MBps
Power Usage	500 milliamps (mA)
Current Rating	1.5 Amps,
D.W.V.	500 Vac
I.R.	1000 Mega ohms
Cabling Length	5.0 Meters Max
Shield Continuity	Continuous through coupler or continuous coupler to shell
Environmental/Mechanical Performance	
Sealing	IP68 mated condition, IP67 unmated condition
Outgassing	Mod Code 1865 meets outgassing requirements per ASTM E 595 and meets NASA level 3 screening for standard reliability Mod Code 928 meets outgassing requirements per UL 94 V-0
Operating Temperature	-40°C to +120°C
Backshell Interface	Consult Factory
Mating System	Reverse Bayonet
Mating Cycles	500
Vibration	10G sine 10Hz - 2000Hz
Shock	50G - 11ms

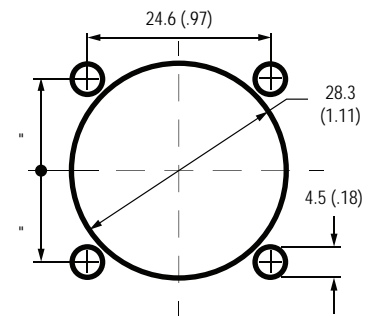
Glenair Super ITS Material and Finish Codes

Code	Material	Finish	Salt Spray	Electrical Conductivity	Operating Temperature	RoHS
F6	Aluminum	Black Epoxy Paint	500 hrs	No	-55° to +125°C	☑
F7	Aluminum	Black Zinc Nickel	500 hrs	Yes	-55° to +125°C	☑
F11	Aluminum	Electroless Nickel	48 hrs	Yes	-55° to +125°C	☑
G3	Aluminum	Cadmium, Olive Drab	500 hrs	Yes	-55° to +125°C	☒

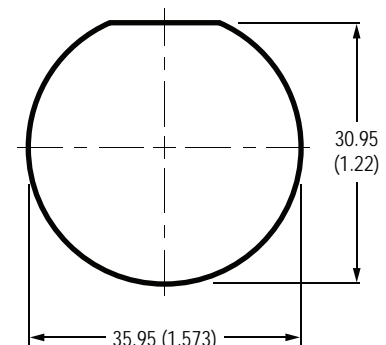
GLENAIR SUPER ITS RJ45 PANEL CUTOUTS FOR SHELL SIZE 18



SQUARE FLANGE
FRONT PANEL MOUNT



SQUARE FLANGE
REAR PANEL MOUNT



JAM NUT MOUNT

SUPER ITS: RUGGEDIZED RJ45 ETHERNET AND USB



COMPATIBLE WITH USB 2.0 AND 1.1 Super ITS - USB Type A SuperSeal™ Rugged Field Connectors



Environmental, shielded, reverse-bayonet connectors

ASTM E595 Outgassing

MOD CODE 186S

- SuperSeal® connectors specially processed to meet ASTM E595 outgassing requirements.
- Modification code specifies special outgassing bakeout processing.
- Meets NASA Screening Level 1 requirements

Space flight equipment requires low-outgassing components in order to prevent degradation to optics and other sensitive instruments. The space industry has adopted a standardized test procedure, ASTM E595, to evaluate outgassing properties. In the ASTM test, material samples are heated to 125° C at a vacuum of 5×10^{-5} torr for 24 hours. The test sample is then weighed to calculate the Total Mass Loss (TML), which may not exceed 1.0% of the total initial mass. A collector plate is used to determine the Collected Volatile Condensable Material (CVCM), which may not exceed 0.1% of the total original specimen mass. SuperSeal™ connectors contain nonmetallic materials such as rubber, plastic, adhesives and potting compounds which can give off gases when subjected to a vacuum or high heat. Unless the connector is specially processed, the TML and CVCM can exceed allowable limits. Glenair is able to offer a bakeout process, 48 hour oven bakeout at 257° F, which assures all materials comply with ASTM E595

UL 94 V-0 Flammability Standard

MOD CODE 928

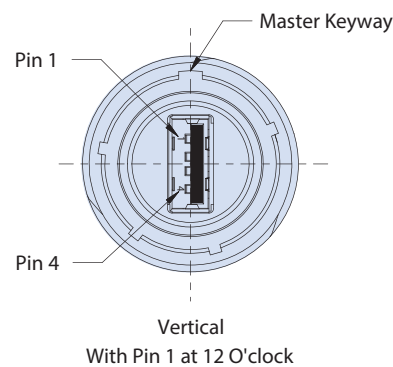
- SuperSeal® connectors specially processed to meet UL 94 V-0 flammability standard

UL 94, the Standard for Safety of Flammability of Plastic Materials for Parts in Devices and Appliances testing is a plastics flammability standard released by Underwriters Laboratories of the USA. The standard classifies plastics according to how they burn in various orientations and thicknesses. From lowest (least flame-retardant) to highest (most flame-retardant) V-0. Burning stops within 10 seconds on a vertical specimen; specimens may not drip flaming particles.

Flip Vertical USB Orientation by 180 degrees

MOD CODE 915

Flip standard, vertically oriented USB designs 180 degrees, allowing pin 1 to be located at the 12 O'clock position.



SUPER ITS: RUGGEDIZED RJ45 ETHERNET AND USB



COMPATIBLE WITH USB 2.0 AND 1.1 Super ITS - USB Type A SuperSeal™ Rugged Field Connectors



Environmental, shielded, reverse-bayonet connectors

Super ITS 340: Rugged reverse-bayonet plugs and receptacles with easy plug-and-play cabling to commercial USB 2.0 Type A cables.



Super ITS 340 USB 2.0 SuperSeal connectors are designed for easy and convenient integration with commercial USB Type A cables. The "340" is quickly cabled up for rugged field use. Simply plug-and-play your USB Type A plug cable into the female port and install your choice of cable sealing backshell accessory. Rugged reverse-bayonet mating provides easy male-to-female intermateability while the locking three pin bayonet coupler prevents demating under high-shock and high-vibration conditions. Super ITS 340 reverse-bayonet plug connectors have a USB 2.0 male plug in the mating interface; all receptacles have female USB ports. Accessory thread (1-20 UNEF) for attachment of backshells and adapters.

SUPER ITS: RUGGEDIZED RJ45 ETHERNET AND USB

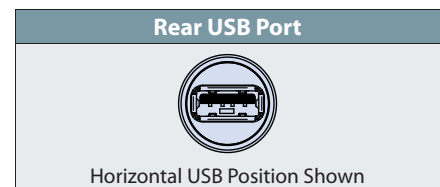
Performance Specifications	
Material and Finish	
Material/Finish	See How to Order table
USB Coupler Housing	UL94V-0 Compliant ABS or PPS
Grommet, Peripheral Seal, Interfacial Seal, O-ring	Blended fluorosilicone silicone elastomer, 30% silicone per ZZ-R-765, 70% fluorosilicone per MIL-R-25988
Electrical Specifications	
Data Rate	480 MBps
Power Usage	500 milliamps (mA)
Current Rating	1.5 Amps,
D.W.V.	500 VAC
I.R.	1000 MegOhms
Cabling Length	5.0 Meters Max
Shielding	Continuous through coupler or continuous coupler to shell
Environmental/Mechanical Performance	
Sealing	IP68 mated condition, IP67 unmated condition
Operating Temperature	-40°C to +120°C
Vibration	37 g's
Mechanical Shock	300 g's
Mating Cycles	500

How To Order								
Sample Part Number:	ITS 340	030	16	2	A	A	H	F7
Series	ITS 340 = for use with commercial USB Type A cables							
Shell Style	See shell style table							
Shell Size	16							
USB Protocol	2 = USB 2.0							
Front Interface	A = Type A							
Rear Interface	A = Type A							
USB Orientation	H = Horizontal V = Vertical							
Material / Finish	Omit for aluminum / cadmium olive drab (G3) F6 = Aluminum / black electrodeposited paint F7 = Aluminum / black zinc nickel F11 = Aluminum / electroless nickel							

Connector Shell Styles	
Code	Description
030	Rear panel mount, wall mount receptacle with thread mount holes
01	In-line receptacle
070	Rear panel mount, jam-nut receptacle
06	Plug

Super ITS 340 connectors:
 06 connector plug shell style has male USB plug at connector mating interface.
 030, 01, and 070 connector receptacle shell styles have female USB port at connector mating interface.
 All shell styles have rear female USB cable port

USB Orientation Options			
Plugs		Receptacle	
Code H	Code V	Code H	Code V



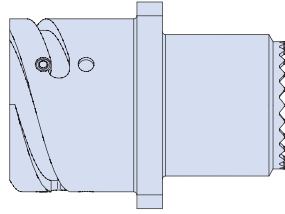
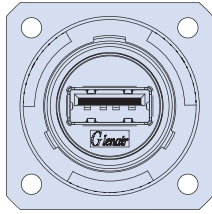


COMPATIBLE WITH USB 2.0 AND 1.1
Super ITS - USB Type A SuperSeal™
Rugged Field Connectors

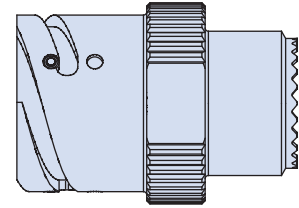
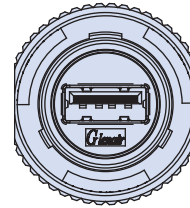


Environmental, shielded, reverse-bayonet connectors

SHELL STYLE 030: REAR PANEL WALL-MOUNT RECEPTACLE WITH THROUGH HOLES AND ACCESSORY THREADS



SHELL STYLE 01: INLINE RECEPTACLE WITH ACCESSORY THREADS



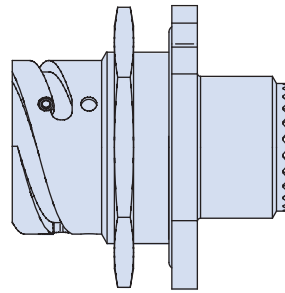
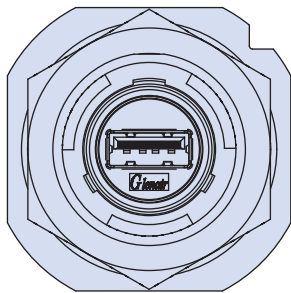
Sample Part Number

ITS340	030	16	2	A	A	H	F7
Series	Shell Style	Shell Size	USB 2.0 Protocol	Front USB Type	Rear USB Type	USB Position H or V	Material / Finish G3 (omit) F6, F7, F11

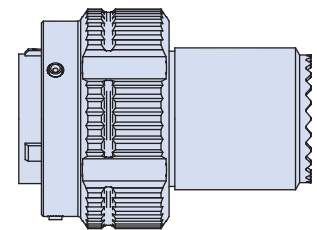
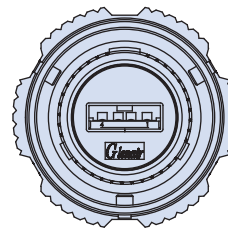
Sample Part Number

ITS340	01	16	2	A	A	H	F7
Series	Shell Style	Shell Size	USB 2.0 Protocol	Front USB Type	Rear USB Type	USB Position H or V	Material / Finish G3 (omit) F6, F7, F11

SHELL STYLE 070: REAR PANEL MOUNT JAM-NUT RECEPTACLE WITH ACCESSORY THREADS



SHELL STYLE 06: PLUG WITH ACCESSORY THREADS



Sample Part Number

ITS340	070	16	2	A	A	H	F7
Series	Shell Style	Shell Size	USB 2.0 Protocol	Front USB Type	Rear USB Type	USB Position H or V	Material / Finish G3 (omit) F6, F7, F11

Sample Part Number

ITS340	06	16	2	A	A	H	F7
Series	Shell Style	Shell Size	USB 2.0 Protocol	Front USB Type	Rear USB Type	USB Position H or V	Material / Finish G3 (omit) F6, F7, F11

SUPER ITS: RUGGEDIZED RJ45 ETHERNET AND USB



COMPATIBLE WITH USB 2.0 AND 1.1 Super ITS - USB Type A SuperSeal™ Rugged Field Connectors



Environmental, shielded, reverse-bayonet connectors



Super ITS 345: connector with USB 2.0 Type A mating interface, accessory threads and crimp contact wire termination

Super ITS 345, USB 2.0 SuperSeal connectors provide easy crimp-and-poke wire termination with industry-standard wire contacts and tools. Reverse-bayonet plug connectors use male USB plugs while receptacles use female ports through the mating interface. Size 22 crimp contacts (M39029/58-360) supplied loose. Rugged reverse-bayonet mating provides reliable intermateability while the locking three pin bayonet coupler prevents demating under high shock and high vibration conditions. Accessory thread (1-20 UNEF) accessory thread for attachment of backshells and adapters.

SUPER ITS: RUGGEDIZED RJ45 ETHERNET AND USB

Performance Specifications	
Material and Finish	
Material/Finish	See How to Order table
Crimp Contacts	Copper alloy, gold plated
USB Coupler Housing	UL94V-0 Compliant ABS or PPS
Grommet, Peripheral Seal, Interfacial Seal, O-ring	Blended fluorosilicone silicone elastomer, 30% silicone per ZZ-R-765, 70% fluorosilicone per MIL-R-25988
Electrical Specifications	
Data Rate	480 MBps
Power Usage	500 milliamps (mA)
Current Rating	1.5 Amps,
D.W.V.	500 VAC
I.R.	1000 MegOhms
Cabling Length	5.0 Meters Max
Shielding	Continuous through coupler or continuous coupler to shell
Environmental/Mechanical Performance	
Sealing	IP68 mated condition, IP67 unmated condition
Operating Temperature	-40°C to +120°C
Vibration	37 g's
Mechanical Shock	300 g's
Mating Cycles	500

How To Order								
Sample Part Number:	ITS 345	030	16	2	A	A	H	F6
Series	ITS 345 = Crimp contact termination							
Shell Style	See shell style table							
Shell Size	16							
USB Protocol	2 = USB 2.0							
Front Interface	A = Type A							
Rear Interface	A = Type A							
USB Orientation	H = Horizontal V = Vertical							
Material / Finish	Omit for aluminum / cadmium olive drab (G3) F6 = Aluminum / black electrodeposited paint F7 = Aluminum / black zinc nickel F11 = Aluminum / electroless nickel							

Connector Shell Styles	
Code	Description
030	Rear panel mount, wall mount receptacle with through-mount holes
01	In-line receptacle
070	Rear panel mount, jam-nut receptacle
06	Plug

USB Orientation Options			
Plugs		Receptacle	
Code H	Code V	Code H	Code V



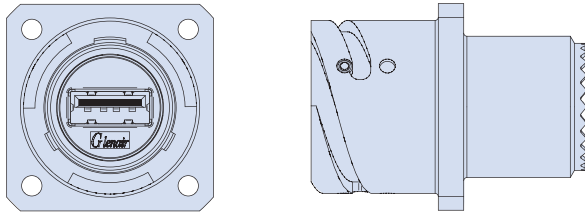


COMPATIBLE WITH USB 2.0 AND 1.1
Super ITS - USB Type A SuperSeal™
Rugged Field Connectors

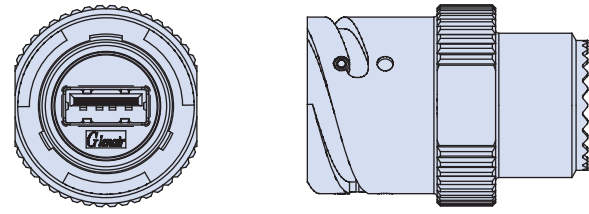


Environmental, shielded, reverse-bayonet connectors

SHELL STYLE 030: REAR PANEL WALL MOUNT RECEPTACLE WITH THROUGH HOLES AND ACCESSORY THREADS



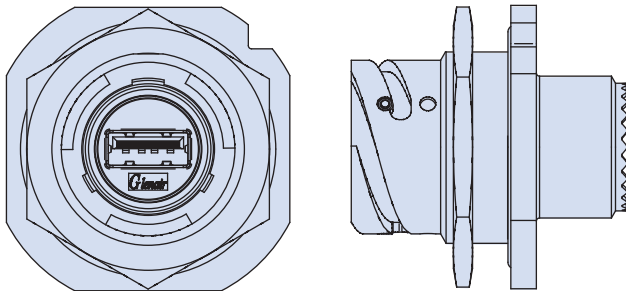
SHELL STYLE 01: INLINE RECEPTACLE WITH ACCESSORY THREADS



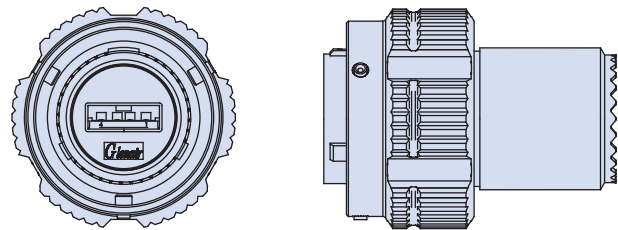
Sample Part Number							
ITS345	030	16	2	A	A	H	F7
Series	Shell Style	Shell Size	USB 2.0 Protocol	Front USB Type	Rear USB Type	USB Position H or V	Material / Finish G3 (omit) F6, F7, F11

Sample Part Number							
ITS345	01	16	2	A	A	H	F7
Series	Shell Style	Shell Size	USB 2.0 Protocol	Front USB Type	Rear USB Type	USB Position H or V	Material / Finish G3 (omit) F6, F7, F11

SHELL STYLE 070: REAR PANEL MOUNT JAM-NUT RECEPTACLE WITH ACCESSORY THREADS



SHELL STYLE 06: PLUG WITH ACCESSORY THREADS



Sample Part Number							
ITS345	070	16	2	A	A	H	F7
Series	Shell Style	Shell Size	USB 2.0 Protocol	Front USB Type	Rear USB Type	USB Position H or V	Material / Finish G3 (omit) F6, F7, F11

Sample Part Number							
ITS345	06	16	2	A	A	H	F7
Series	Shell Style	Shell Size	USB 2.0 Protocol	Front USB Type	Rear USB Type	USB Position H or V	Material / Finish G3 (omit) F6, F7, F11

SUPER ITS: RUGGEDIZED RJ45 ETHERNET AND USB



COMPATIBLE WITH USB 2.0 AND 1.1 Super ITS - USB Type A SuperSeal™ Rugged Field Connectors



Environmental, shielded, reverse-bayonet connectors



Super ITS 342, receptacle with USB 2.0 Type A mating interface and PC tail contacts

Super ITS 342, USB 2.0 SuperSeal connectors are equipped with thru-hole PC tail terminations for direct attachment to printed circuit boards. Reverse-bayonet plug connector is equipped with commercial USB Type A plug. Mating receptacles are equipped with USB female ports. Rugged reverse-bayonet mating provides reliable intermateability while the locking three-pin bayonet coupler prevents demating under high shock and high vibration conditions.

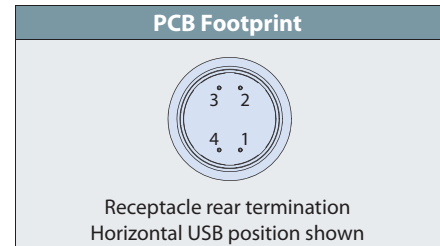
SUPER ITS: RUGGEDIZED RJ45 ETHERNET AND USB

Performance Specifications	
Material and Finish	
Material/Finish	See How to Order table
PC tail Contacts	Copper alloy, gold plated
USB Coupler Housing	UL94V-0 Compliant ABS or PPS
Grommet, Peripheral Seal, Interfacial Seal, O-ring	Blended fluorosilicone silicone elastomer, 30% silicone per ZZ-R-765, 70% fluorosilicone per MIL-R-25988
Electrical Specifications	
Data Rate	480 MBps
Power Usage	500 milliamps (mA)
Current Rating	1.5 Amps,
D.W.V.	500 VAC
I.R.	1000 MegOhms
Cabling Length	5.0 Meters Max
Shielding	Continuous through coupler or continuous coupler to shell
Environmental/Mechanical Performance	
Sealing	IP68 mated condition, IP67 unmated condition
Operating Temperature	-40°C to +120°C
Vibration	37 g's
Mechanical Shock	300 g's
Mating Cycles	500

How To Order	
Sample Part Number:	ITS342 030 16 2 A A H F7
Series	ITS342 = PC tail contacts
Shell Style	See shell style table
Shell Size	16
USB Protocol	2 = USB 2.0
Front Interface	A = Type A
Rear Interface	A = Type A
USB Orientation	H = Horizontal V = Vertical
Material / Finish	Omit for aluminum / cadmium olive drab (G3) F6 = Aluminum / black electrodeposited paint F7 = Aluminum / black zinc nickel F11 = Aluminum / electroless nickel

Connector Shell Styles	
Code	Description
03	Rear panel mount, box mount receptacle with through-mount holes
07	Rear panel mount, jam-nut receptacle

USB Orientation Options			
Plugs		Receptacle	
Code H	Code V	Code H	Code V



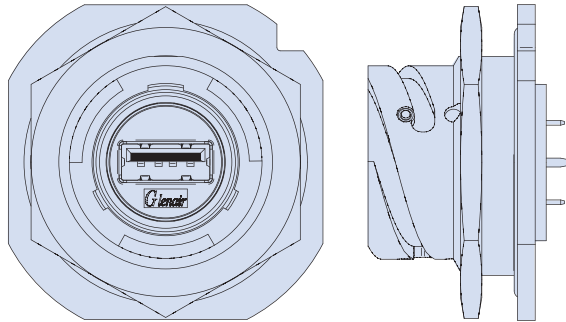


COMPATIBLE WITH USB 2.0 AND 1.1 Super ITS - USB Type A SuperSeal™ Rugged Field Connectors

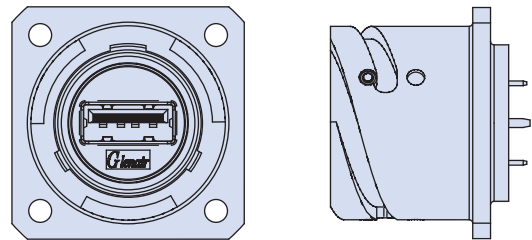


Environmental, shielded, reverse-bayonet connectors

SHELL STYLE 07: REAR PANEL MOUNT, JAM-NUT RECEPTACLE



SHELL STYLE 03: REAR PANEL WALL MOUNT RECEPTACLE WITH THROUGH HOLES



Sample Part Number

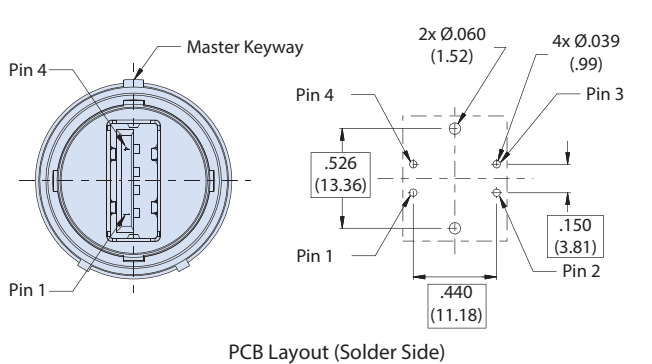
ITS342	070	16	2	A	A	H	F7
Series	Shell Style	Shell Size	USB 2.0 Protocol	Front USB Type	Rear USB Type	USB Position H or V	Material / Finish G3 (omit) F6, F7, F11

Sample Part Number

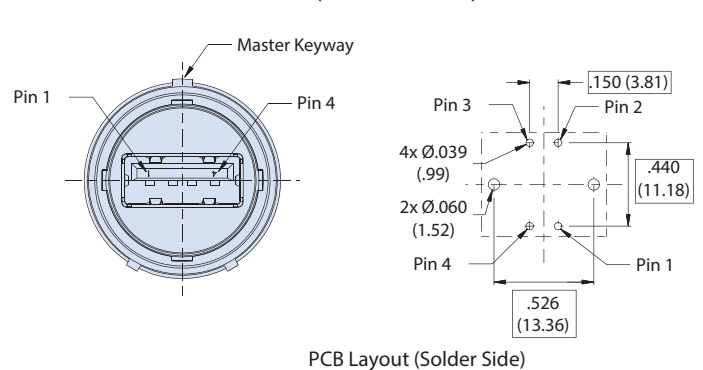
ITS342	030	16	2	A	A	H	F7
Series	Shell Style	Shell Size	USB 2.0 Protocol	Front USB Type	Rear USB Type	USB Position H or V	Material / Finish G3 (omit) F6, F7, F11

STANDARD USB 2.0 PCB FOOTPRINTS FOR SUPER ITS SUPERSEAL CONNECTORS

V (VERTICAL)



H (HORIZONTAL)



SUPER ITS: RUGGEDIZED RJ45 ETHERNET AND USB



COMPATIBLE WITH USB 2.0 AND 1.1 Super ITS - USB Type A SuperSeal™ Rugged Field Connectors



Environmental, shielded, reverse-bayonet connectors



Super ITS 343: receptacle with USB 2.0 Type A mating interface and solder cup contacts

Super ITS 345, USB 2.0 connectors enable easy solder cup wire termination. Ruggedized, reverse-bayonet plug connectors use USB male plugs while receptacles use USB female ports through the mating interface. Rugged reverse bayonet mating provides reliable intermateability while the locking three-pin bayonet coupler prevents demating under high shock and high vibration conditions.

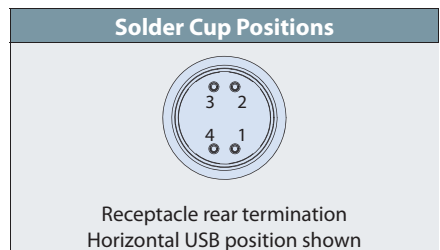
SUPER ITS: RUGGEDIZED RJ45 ETHERNET AND USB

Performance Specifications	
Material and Finish	
Material/Finish	See How to Order table
Solder Cup Contacts	Copper alloy, gold plated
USB Coupler Housing	UL94V-0 Compliant ABS or PPS
Grommet, Peripheral Seal, Interfacial Seal, O-ring	Blended fluorosilicone
	silicone elastomer, 30%
	silicone per ZZ-R-765, 70% fluorosilicone per MIL-R-25988
Electrical Specifications	
Data Rate	480 MBps
Power Usage	500 milliamps (mA)
Current Rating	1.5 Amps,
D.W.V.	500 VAC
I.R.	1000 MegOhms
Cabling Length	5.0 Meters Max
Shielding	Continuous through coupler or continuous coupler to shell
Environmental/Mechanical Performance	
Sealing	IP68 mated condition, IP67 unmated condition
Operating Temperature	-40°C to +120°C
Vibration	37 g's
Mechanical Shock	300 g's
Mating Cycles	500

How To Order	
Sample Part Number:	ITS343 030 16 2 A A H F6
Series	ITS 343 = Solder cup contacts
Shell Style	See shell style table
Shell Size	16
USB Protocol	2 = USB 2.0
Front Interface	A = Type A
Rear Interface	A = Type A
USB Orientation	H = Horizontal V = Vertical
Material / Finish	Omit for aluminum / cadmium olive drab (G3) F6 = Aluminum / black electrodeposited paint F7 = Aluminum / black zinc nickel F11 = Aluminum / electroless nickel

Connector Shell Styles	
Code	Description
03	Rear panel mount, box mount receptacle with through-mount holes
07	Rear panel mount, jam-nut receptacle

USB Orientation Options			
Plugs		Receptacle	
Code H	Code V	Code H	Code V



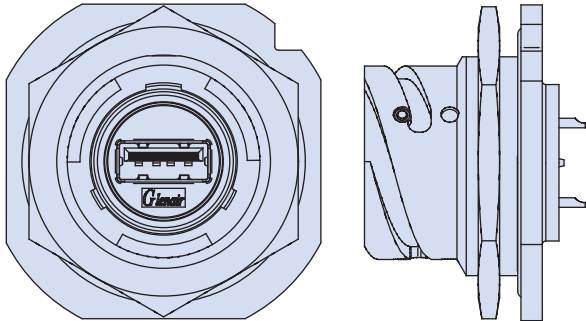


COMPATIBLE WITH USB 2.0 AND 1.1
Super ITS - USB Type A SuperSeal™
Rugged Field Connectors

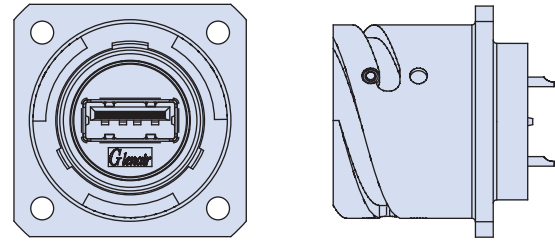


Environmental, shielded, reverse-bayonet connectors

SHELL STYLE 07: REAR PANEL MOUNT, JAM-NUT RECEPTACLE



SHELL STYLE 03: REAR PANEL WALL MOUNT RECEPTACLE WITH THROUGH HOLES



Sample Part Number

ITS343	070	16	2	A	A	H	F7
Series	Shell Style	Shell Size	USB 2.0 Protocol	Front USB Type	Rear USB Type	USB Position H or V	Material / Finish G3 (omit) F6, F7, F11

Sample Part Number

ITS343	030	16	2	A	A	H	F7
Series	Shell Style	Shell Size	USB 2.0 Protocol	Front USB Type	Rear USB Type	USB Position H or V	Material / Finish G3 (omit) F6, F7, F11

SUPER ITS: RUGGEDIZED RJ45 ETHERNET AND USB

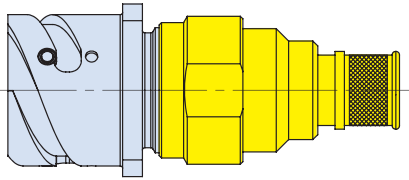




COMPATIBLE WITH USB 2.0 AND 1.1 Super ITS - USB Type A SuperSeal™ Rugged Field Connectors



Environmental, shielded, reverse-bayonet connectors



Super ITS 340H: USB 2.0 Type A connector and backshell with ZL cable shield termination adapter with shrink boot groove

Super ITS 340H USB 2.0 SuperSeal connectors are designed for easy and convenient integration with commercial USB Type A cables. The "340H" is quickly cabled up for rugged field use. Super ITS 340H plug connectors have a USB Type A male plug in the mating interface; all receptacles have USB female ports. Incorporated ZL banding backshell is designed for termination of braided cable shielding and includes a shrink boot groove for application of flexible polyolefin short-profile boots. Available shrink boots are resistant to fuels, oils and solvents and specifically designed to be applied to low temperature rated USB 2.0 cables.

SUPER ITS: RUGGEDIZED RJ45 ETHERNET AND USB

Performance Specifications	
Material and Finish	
Material/Finish	See How to Order table
USB Coupler Housing	UL94V-0 Compliant ABS or PPS
Grommet, Peripheral Seal, Interfacial Seal, O-ring	Blended fluorosilicone silicone elastomer, 30% silicone per ZZ-R-765, 70% fluorosilicone per MIL-R-25988
Electrical Specifications	
Data Rate	480 MBps
Power Usage	500 milliamps (mA)
Current Rating	1.5 Amps,
D.W.V.	500 VAC
I.R.	1000 MegOhms
Cabling Length	5.0 Meters Max
Shielding	Continuous through coupler or continuous coupler to shell
Environmental/Mechanical Performance	
Sealing	IP68 mated condition, IP67 unmated condition
Operating Temperature	-40°C to +120°C
Vibration	37 g's
Mechanical Shock	300 g's
Mating Cycles	500

Rear Interface	
	Plug or Receptacle Rear USB Port, Horizontal Position Shown

How To Order	
Sample Part Number:	ITS340H 030 16 2 A A H ZL F7
Series	ITS 340H = 340 Series Connector and Banding Backshell Assembly
Shell Style	See shell style table
Shell Size	16
USB Protocol	2 = USB 2.0
Front Interface	A = Type A
Rear Interface	A = Type A
USB Orientation	H = Horizontal V = Vertical
Backshell	ZL = Backshell with shield termination and shrink boot groove
Material / Finish	Omit for aluminum / cadmium olive drab (G3) F6 = Aluminum / black electrodeposited paint F7 = Aluminum / black zinc nickel F11 = Aluminum / electroless nickel

Connector Shell Styles	
Code	Description
030	Rear panel mount, wall mount receptacle with through-mount holes
01	In-line receptacle
070	Rear panel mount, jam-nut receptacle
06	Plug

USB Orientation Options			
Plugs		Receptacle	
Code H	Code V	Code H	Code V



Glenair P/N : **770-004S903W2**

Must be ordered separately

Type 9 flexible polyolefin short profile boots have an operating temperature range of -40°C to 100°C and provide very good resistance to fuels, oils and solvents. These boots fit most standard boot adapters for circular connectors and are specifically designed for low temperature rated CAT5e and USB cables.

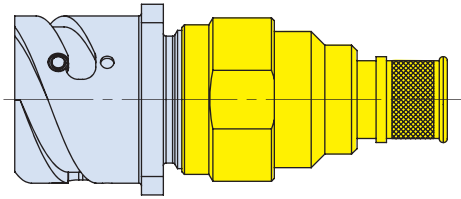


COMPATIBLE WITH USB 2.0 AND 1.1
Super ITS - USB Type A SuperSeal™
Rugged Field Connectors

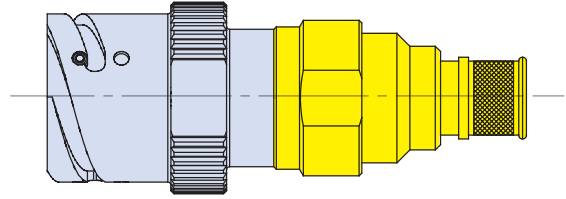


Environmental, shielded, reverse-bayonet connectors

SHELL STYLE 030: REAR PANEL WALL MOUNT RECEPTACLE WITH THROUGH HOLES AND BACKSHELL WITH CABLE SHIELD TERMINATION AND SHRINK BOOT GROOVE



SHELL STYLE 01: INLINE RECEPTACLE AND BACKSHELL WITH CABLE SHIELD TERMINATION AND SHRINK BOOT GROOVE



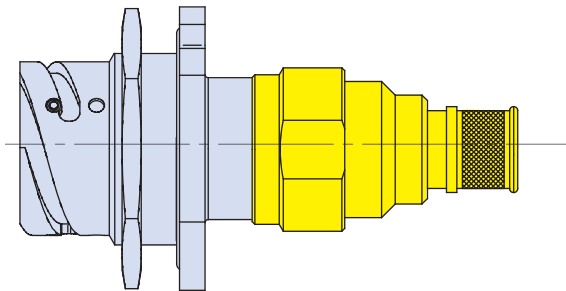
Sample Part Number

ITS340H	030	16	2	A	A	H	ZL	F7
Series	Shell Style	Shell Size	USB 2.0 Protocol	Front USB Type	Rear USB Type	USB Pos. H or V	Back-shell	Material / Finish G3 (omit) F6, F7, F11

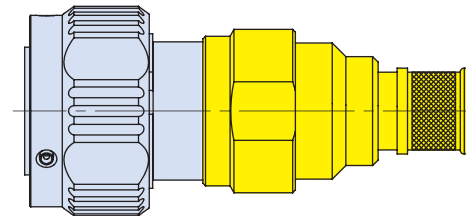
Sample Part Number

ITS340H	01	16	2	A	A	H	ZL	F7
Series	Shell Style	Shell Size	USB 2.0 Protocol	Front USB Type	Rear USB Type	USB Pos. H or V	Back-shell	Material / Finish G3 (omit) F6, F7, F11

SHELL STYLE 070: REAR PANEL MOUNT JAM-NUT RECEPTACLE AND BACKSHELL WITH CABLE SHIELD TERMINATION AND SHRINK BOOT GROOVE



SHELL STYLE 06: PLUG AND BACKSHELL WITH CABLE SHIELD TERMINATION AND SHRINK BOOT GROOVE



Sample Part Number

ITS340H	070	16	2	A	A	H	ZL	F7
Series	Shell Style	Shell Size	USB 2.0 Protocol	Front USB Type	Rear USB Type	USB Pos. H or V	Back-shell	Material / Finish G3 (omit) F6, F7, F11

Sample Part Number

ITS340H	06	16	2	A	A	H	ZL	F7
Series	Shell Style	Shell Size	USB 2.0 Protocol	Front USB Type	Rear USB Type	USB Pos. H or V	Back-shell	Material / Finish G3 (omit) F6, F7, F11

SUPER ITS: RUGGEDIZED RJ45 ETHERNET AND USB

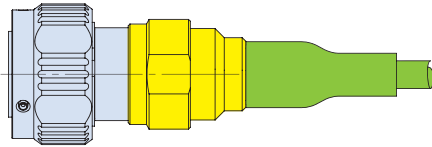


COMPATIBLE WITH USB 2.0 AND 1.1 Super ITS - USB Type A SuperSeal™ Rugged Field Connectors



Environmental, shielded, reverse-bayonet connectors

Super ITS 340H: connector pigtail assembly— with ZL banding adapter and shrink boot



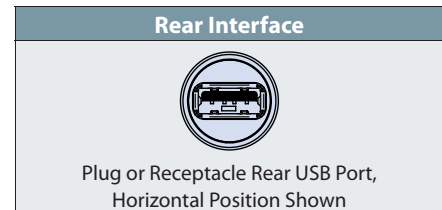
Super ITS 340H SuperSeal connectors are designed for easy and convenient integration with commercial USB cables. Super ITS 340 plug connectors have a USB Type A male plug in the mating interface; all receptacles have female USB Type A ports. This pigtail assembly is factory-built with your choice of Super ITS 340 series connector, single-ended wire pigtail, cable shield band adapter, and environmental shrink boot. Fully-recovered environmental shrink boots are resistant to fuels, oils, and solvents and specifically designed to be applied to provided low temperature rated USB cable.

SUPER ITS: RUGGEDIZED RJ45 ETHERNET AND USB

Performance Specifications	
Material and Finish	
Material/Finish	See How to Order table
USB Coupler Housing	UL94V-0 Compliant ABS or PPS
Grommet, Peripheral Seal, Interfacial Seal, O-ring	Blended fluorosilicone silicone elastomer, 30% silicone per ZZ-R-765, 70% fluorosilicone per MIL-R-25988
Electrical Specifications	
Data Rate	480 MBps
Power Usage	500 milliamps (mA)
Current Rating	1.5 Amps,
D.W.V.	500 VAC
I.R.	1000 MegOhms
Cabling Length	5.0 Meters Max
Shielding	Continuous through coupler or continuous coupler to shell
Environmental/Mechanical Performance	
Sealing	IP68 mated condition, IP67 unmated condition
Operating Temperature	-40°C to +120°C
Vibration	37 g's
Mechanical Shock	300 g's
Mating Cycles	500

How To Order	
Sample Part Number:	ITS340H 030 16 2 A A H ZL .5 F7
Series	ITS 340H = 340 series connector and backshell / boot assembly
Shell Style	See shell style table
Shell Size	16
USB Protocol	2 = USB 2.0
Front Interface Type	A = Type A
Rear Interface Type	A = Type A
USB Orientation	H = Horizontal V = Vertical
Backshell	ZL = Integrated adapter type (banding with shrink boot)
Cable Length	0.5 = 0.5 meter (20 inches) increments
Material / Finish	Omit for aluminum / cadmium olive drab (G3) F7 = Aluminum / black zinc nickel F11 = Aluminum / electroless nickel

Connector Shell Styles	
Code	Description
030	Rear panel mount, wall mount receptacle with through-mount holes
01	In-line receptacle
070	Rear panel mount, jam-nut receptacle
06	Plug



USB Orientation Options			
Plugs		Receptacle	
Code H	Code V	Code H	Code V

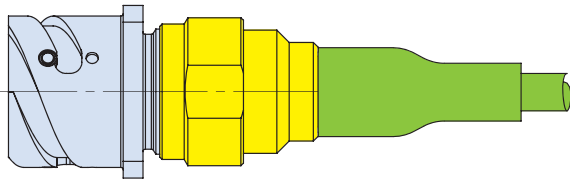


COMPATIBLE WITH USB 2.0 AND 1.1
Super ITS - USB Type A SuperSeal™
Rugged Field Connectors

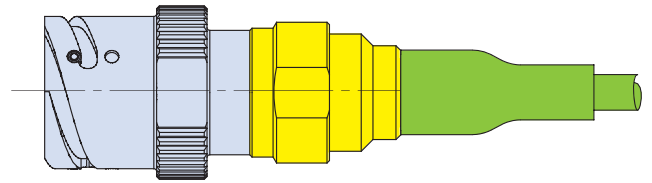


Environmental, shielded, reverse-bayonet connectors

SHELL STYLE 030: REAR PANEL WALL MOUNT RECEPTACLE WITH THROUGH HOLES AND EMI BACKSHELL WITH SHIELD TERMINATED PIGTAIL AND STRAIN RELIEF/ ENVIRONMENTAL BOOT



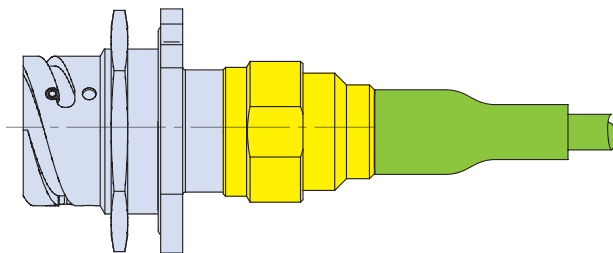
SHELL STYLE 01: INLINE RECEPTACLE AND EMI BACKSHELL WITH SHIELD TERMINATED PIGTAIL AND STRAIN RELIEF/ ENVIRONMENTAL BOOT



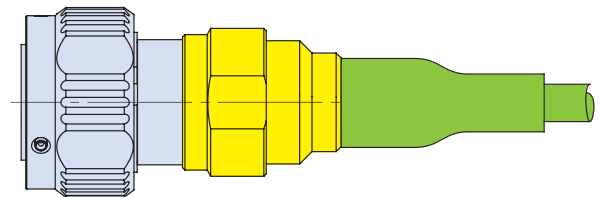
Sample Part Number									
ITS340H	030	16	2	A	A	H	ZL	.5	F7
Series	Shell Style	Shell Size	USB 2.0	Front USB Type	Rear USB Type	USB Pos. H or V	Back-shell	Cable Length	Material / Finish G3 (omit) F6, F7, F11

Sample Part Number									
ITS340H	01	16	2	A	A	H	ZL	.5	F7
Series	Shell Style	Shell Size	USB 2.0	Front USB Type	Rear USB Type	USB Pos. H or V	Back-shell	Cable Length	Material / Finish G3 (omit) F6, F7, F11

SHELL STYLE 070: REAR MOUNT JAM-NUT RECEPTACLE AND EMI BACKSHELL WITH SHIELD TERMINATED PIGTAIL AND STRAIN RELIEF/ ENVIRONMENTAL BOOT



SHELL STYLE 06: PLUG AND EMI BACKSHELL WITH SHIELD TERMINATED PIGTAIL AND STRAIN RELIEF/ ENVIRONMENTAL BOOT



Sample Part Number									
ITS340H	070	16	2	A	A	H	ZL	.5	F7
Series	Shell Style	Shell Size	USB 2.0	Front USB Type	Rear USB Type	USB Pos. H or V	Back-shell	Cable Length	Material / Finish G3 (omit) F6, F7, F11

Sample Part Number									
ITS340H	06	16	2	A	A	H	ZL	.5	F7
Series	Shell Style	Shell Size	USB 2.0	Front USB Type	Rear USB Type	USB Pos. H or V	Back-shell	Cable Length	Material / Finish G3 (omit) F6, F7, F11

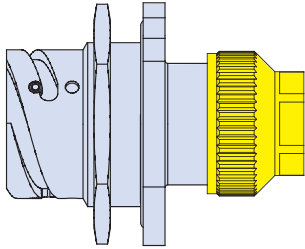
SUPER ITS: RUGGEDIZED RJ45 ETHERNET AND USB



COMPATIBLE WITH USB 2.0 AND 1.1 Super ITS - USB Type A SuperSeal™ Rugged Field Connectors



Environmental, shielded, reverse-bayonet connectors



Super ITS 340H: connector with metric thread adapter for flexible conduit wire protection applications

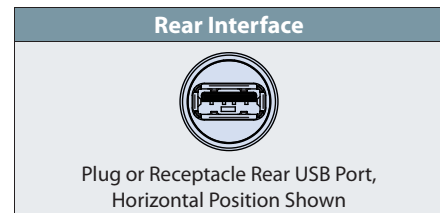
Super ITS 340H USB 2.0 SuperSeal connectors are designed for easy and convenient integration with commercial USB cables. Super ITS 340 plug connectors have a USB Type A male plug in the mating interface; all receptacles have USB Type A female ports. This connector / backshell assembly is offered with a metric thread adapter for ready attachment of flexible wire protection conduit.

SUPER ITS: RUGGEDIZED RJ45 ETHERNET AND USB

Performance Specifications	
Material and Finish	
Material/Finish	See How to Order table
USB Coupler Housing	UL94V-0 Compliant ABS or PPS
Grommet, Peripheral Seal, Interfacial Seal, O-ring	Blended fluorosilicone silicone elastomer, 30% silicone per ZZ-R-765, 70% fluorosilicone per MIL-R-25988
Electrical Specifications	
Data Rate	480 MBps
Power Usage	500 milliamps (mA)
Current Rating	1.5 Amps,
D.W.V.	500 VAC
I.R.	1000 MegOhms
Cabling Length	5.0 Meters Max
Shielding	Continuous through coupler or continuous coupler to shell
Environmental/Mechanical Performance	
Sealing	IP68 mated condition, IP67 unmated condition
Operating Temperature	-40°C to +120°C
Vibration	37 g's
Mechanical Shock	300 g's
Mating Cycles	500

How To Order	
Sample Part Number:	ITS 340H 030 16 2 A A H ZL F6
Series	ITS 340H = 340 series connector with conduit adapter
Shell Style	See shell style table
Shell Size	16
USB Protocol	2 = USB 2.0
Front Interface Type	A = Type A
Rear Interface Type	A = Type A
USB Orientation	H = Horizontal V = Vertical
Backshell	M = Backshell with internal metric thread
Material / Finish	Omit for aluminum / cadmium olive drab (G3) F6 = Aluminum / black electrodeposited paint F7 = Aluminum / black zinc nickel F11 = Aluminum / electroless nickel

Connector Shell Styles	
Code	Description
030	Rear panel mount, wall mount receptacle with through-mount holes
01	In-line receptacle
070	Rear panel mount, jam-nut receptacle
06	Plug



USB Orientation Options			
Plugs		Receptacle	
Code H	Code V	Code H	Code V

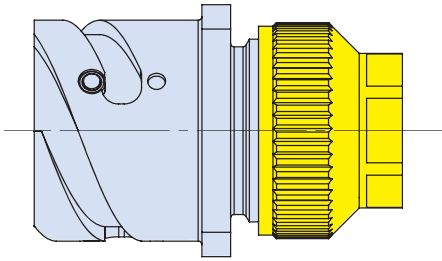


COMPATIBLE WITH USB 2.0 AND 1.1
Super ITS - USB Type A SuperSeal™
Rugged Field Connectors



Environmental, shielded, reverse-bayonet connectors

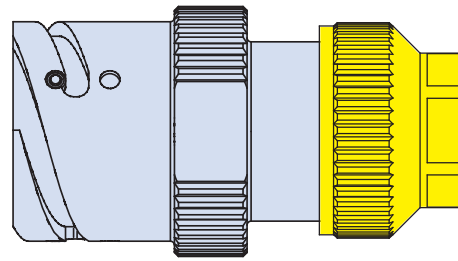
SHELL STYLE 030: REAR PANEL WALL MOUNT RECEPTACLE AND M10 METRIC THREAD CONDUIT ADAPTER



Sample Part Number

ITS340H	030	16	2	A	A	H	M	F7
Series	Shell Style	Shell Size	USB 2.0	Front USB Type	Rear USB Type	USB Pos. H or V	Back-shell	Material / Finish G3 (omit) F6, F7, F11

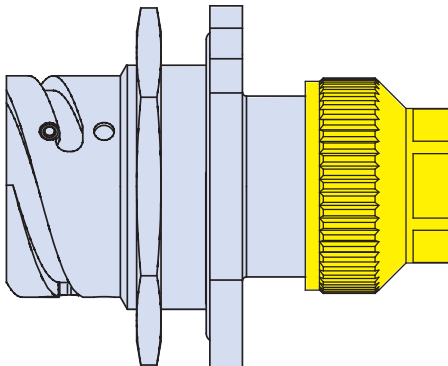
SHELL STYLE 01: INLINE RECEPTACLE AND BACKSHELL AND M10 METRIC THREAD CONDUIT ADAPTER



Sample Part Number

ITS340H	01	16	2	A	A	H	M	F7
Series	Shell Style	Shell Size	USB 2.0	Front USB Type	Rear USB Type	USB Pos. H or V	Back-shell	Material / Finish G3 (omit) F6, F7, F11

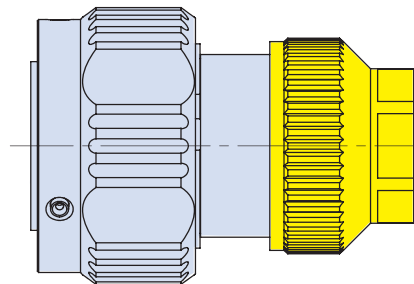
SHELL STYLE 070: REAR PANEL MOUNT JAM-NUT RECEPTACLE AND BACKSHELL AND M10 METRIC THREAD CONDUIT ADAPTER



Sample Part Number

ITS340H	070	16	2	A	A	H	M	F7
Series	Shell Style	Shell Size	USB 2.0	Front USB Type	Rear USB Type	USB Pos. H or V	Back-shell	Material / Finish G3 (omit) F6, F7, F11

SHELL STYLE 06: PLUG AND BACKSHELL WITH CABLE SHIELD TERMINATION AND M10 METRIC THREAD CONDUIT ADAPTER



Sample Part Number

ITS340H	06	16	2	A	A	H	M	F7
Series	Shell Style	Shell Size	USB 2.0	Front USB Type	Rear USB Type	USB Pos. H or V	Back-shell	Material / Finish G3 (omit) F6, F7, F11

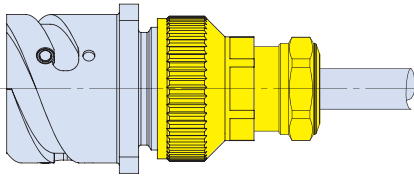
SUPER ITS: RUGGEDIZED RJ45 ETHERNET AND USB



COMPATIBLE WITH USB 2.0 AND 1.1 Super ITS - USB Type A SuperSeal™ Rugged Field Connectors



Environmental, shielded, reverse-bayonet connectors



Super ITS 340H: connector with cable-sealing backshell and optional cable shield termination

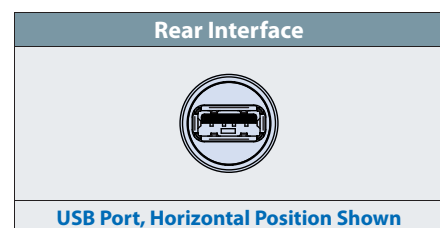
Super ITS 340H USB SuperSeal connectors are designed for easy and convenient integration with commercial USB cables. Super ITS 340 plug connectors have a USB male Type A plug in the mating interface; all receptacles have female USB Type A ports. This connector / backshell assembly is offered with your choice of environmental cable sealing backshells with or without additional cable shield termination feature.

SUPER ITS: RUGGEDIZED RJ45 ETHERNET AND USB

Performance Specifications	
Material and Finish	
Material/Finish	See How to Order table
USB Coupler Housing	UL94V-0 Compliant ABS or PPS
Grommet, Peripheral Seal, Interfacial Seal, O-ring	Blended fluorosilicone silicone elastomer, 30% silicone per ZZ-R-765, 70% fluorosilicone per MIL-R-25988
Electrical Specifications	
Data Rate	480 MBps
Power Usage	500 milliamps (mA)
Current Rating	1.5 Amps,
D.W.V.	500 VAC
I.R.	1000 MegOhms
Cabling Length	5.0 Meters Max
Shielding	Continuous through coupler or continuous coupler to shell
Environmental/Mechanical Performance	
Sealing	IP68 mated condition, IP67 unmated condition
Operating Temperature	-40°C to +120°C
Vibration	37 g's
Mechanical Shock	300 g's
Mating Cycles	500

How To Order	
Sample Part Number:	ITS 340H 030 2 16 A A H ZL .5 F6
Series	ITS 340H = USB 2.0 connector
Shell Style	See shell style table
Shell Size	16
USB Protocol	2 = USB 2.0
Front Interface Type	A = Type A
Rear Interface Type	A = Type A
USB Orientation	H = Horizontal V = Vertical
Backshell	M1, M2, MS1, MS2 = Metallic gland backshell; see metallic cable gland table
Cable Length	0.5 = 0.5 meter (20 inches) increments; omit for none
Material / Finish	Omit for aluminum / cadmium olive drab (G3) F6 = Aluminum / black electrodeposited paint F7 = Aluminum / black zinc nickel F11 = Aluminum / electroless nickel

Connector Shell Styles	
Code	Description
030	Rear panel mount, wall mount receptacle with through-mount holes
01	In-line receptacle
070	Rear panel mount, jam-nut receptacle
06	Plug



USB Orientation Options			
Plugs		Receptacle	
Code H	Code V	Code H	Code V

Metallic Cable Gland		
Type	Cable Range	Shield
M1	.12 - .16 (3 - 4)	No
M2	.16 - .24 (4 - 6)	No
MS1	.12 - .16 (3 - 4)	Yes
MS2	.16 - .24 (4 - 6)	Yes

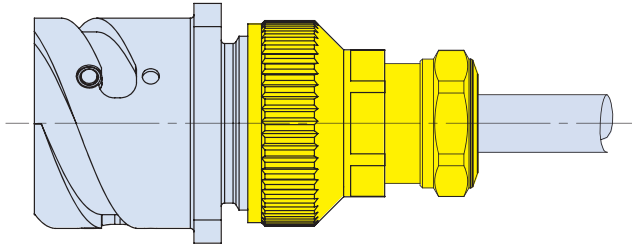


COMPATIBLE WITH USB 2.0 AND 1.1
Super ITS - USB Type A SuperSeal™
Rugged Field Connectors

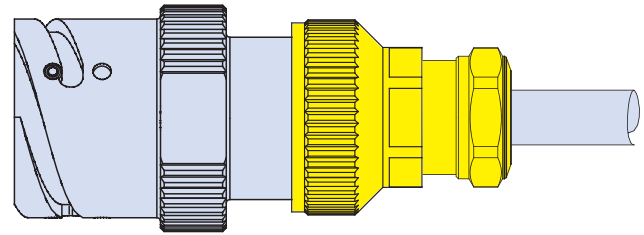


Environmental, shielded, reverse-bayonet connectors

SHELL STYLE 030: REAR PANEL MOUNT, WALL MOUNT RECEPTACLE AND INTERNAL THREADED BACKSHELL WITH CABLE GLAND



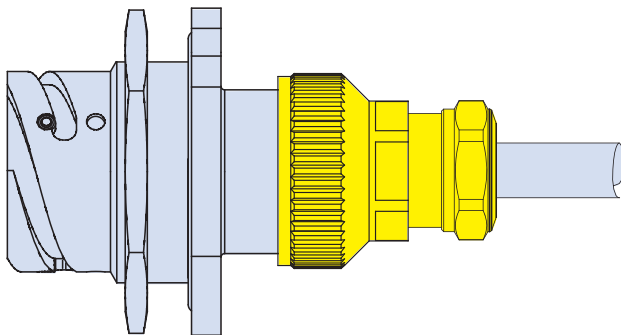
SHELL STYLE 01: INLINE RECEPTACLE AND INTERNAL THREADED BACKSHELL WITH CABLE GLAND



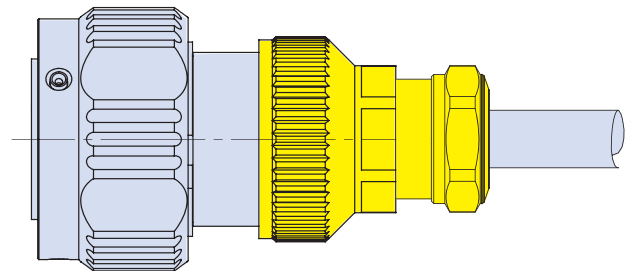
Sample Part Number									
ITS340H	030	16	2	A	A	H	M	.5	F7
Series	Shell Style	Shell Size	USB 2.0	Front USB Type	Rear USB Type	USB Pos. H or V	Back-shell	Cable Length	Material / Finish G3 (omit) F6, F7, F11

Sample Part Number									
ITS340H	01	16	2	A	A	H	M	.5	F7
Series	Shell Style	Shell Size	USB 2.0	Front USB Type	Rear USB Type	USB Pos. H or V	Back-shell	Cable Length	Material / Finish G3 (omit) F6, F7, F11

SHELL STYLE 070: REAR PANEL MOUNT, JAM-NUT RECEPTACLE AND INTERNAL THREADED BACKSHELL WITH CABLE GLAND



SHELL STYLE 06: PLUG AND INTERNAL THREADED BACKSHELL WITH CABLE GLAND



Sample Part Number									
ITS340H	070	16	2	A	A	H	M	.5	F7
Series	Shell Style	Shell Size	USB 2.0	Front USB Type	Rear USB Type	USB Pos. H or V	Back-shell	Cable Length	Material / Finish G3 (omit) F6, F7, F11

Sample Part Number									
ITS340H	06	16	2	A	A	H	M	.5	F7
Series	Shell Style	Shell Size	USB 2.0	Front USB Type	Rear USB Type	USB Pos. H or V	Back-shell	Cable Length	Material / Finish G3 (omit) F6, F7, F11

SUPER ITS: RUGGEDIZED RJ45 ETHERNET AND USB



COMPATIBLE WITH USB 2.0 AND 1.1 Super ITS - USB Type A SuperSeal™ Rugged Field Connectors



Environmental, shielded, reverse-bayonet connectors



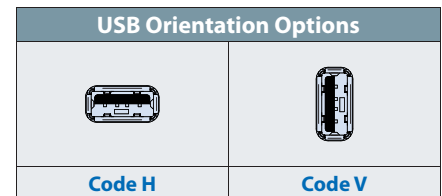
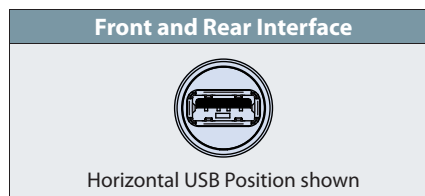
Super ITS 370 feedthrough connector with USB port to port interface

Super ITS 370 USB SuperSeal feedthrough connectors mate with any Super ITS 340 or 341 series plug connector. Rugged reverse-bayonet mating on both sides provides easy male plug-to-female port intermateability while the locking three pin bayonet coupler prevents demating under high shock and high vibration conditions.

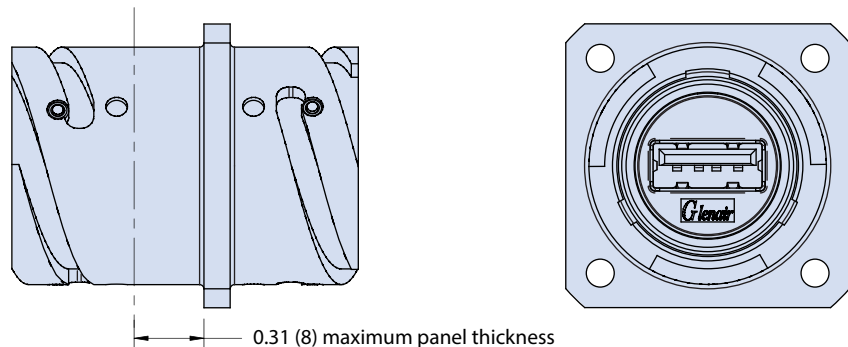
SUPER ITS: RUGGEDIZED RJ45 ETHERNET AND USB

Performance Specifications	
Material and Finish	
Material/Finish	See How to Order table
USB Coupler Housing	UL94V-0 Compliant ABS or PPS
Grommet, Peripheral Seal, Interfacial Seal, O-ring	Blended fluorosilicone silicone elastomer, 30% silicone per ZZ-R-765, 70% fluorosilicone per MIL-R-25988
Electrical Specifications	
Data Rate	480 MBps
Power Usage	500 milliamps (mA)
Current Rating	1.5 Amps,
D.W.V.	500 VAC
I.R.	1000 MegOhms
Cabling Length	5.0 Meters Max
Shielding	Continuous through coupler or continuous coupler to shell
Environmental/Mechanical Performance	
Sealing	IP68 mated condition, IP67 unmated condition
Operating Temperature	-40°C to +120°C
Vibration	37 g's
Mechanical Shock	300 g's
Mating Cycles	500

How To Order	
Sample Part Number:	ITS 370 03PP 2 16 A A H F6
Series	ITS 370 = Bulkhead feedthrough
Shell Style	03PP = Feed-through
Shell Size	16
USB Protocol	2 = USB 2.0
Front Interface Type	A = Type A
Rear Interface Type	A = Type A
USB Orientation	H = Horizontal V = Vertical
Material / Finish	Omit for aluminum / cadmium olive drab (G3) F6 = Aluminum / black electrodeposited paint F7 = Aluminum / black zinc nickel F11 = Aluminum / electroless nickel



STYLE 03PP: REAR PANEL MOUNT BULKHEAD FEED-THROUGH CONNECTOR WITH USB FEMALE-TO-FEMALE INTERFACE





IAW MIL-DTL-5015

Appendix



For Super ITS-MB, Super ITS-IGE-MB and Super-ITS-RG Connectors

Super ITS-MB / IGE -MB / ITS-RG

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Super ITS-MB, Super ITS-RG, and Super IGE-MB and Wall Mount Gaskets	Page D-56
Super ITS-MB and Super ITS-RG Wire Sealing Plugs	Page D-57



IAW MIL-DTL-5015 Standard Insert Arrangements



For Seacrow (ITS-MB and IGE-MB), Radgrip (ITS-RG),
and Nuclear-Grade (ITS-NG) Connectors

SUPER ITS: APPENDIX - INSERT ARRANGEMENTS / ACCESSORIES

Contact			Contact Size							
Layout	Rating	Qty	4/0	0	4	8	12	16	18	20
10SL-3	A	3						3		
10SL-4	A	2						2		
14S-1	A	3						3		
14S-2	I	4						4		
14S-5	I	5						5		
14S-6	I	6						6		
14S-7	A	3						3		
14S-9	A	2						2		
14S-07	I	7						7		
16S-1	A	7						7		
16S-4	D	2						2		
16S-5	A	3						3		
16S-8	A	5						5		
16-2	E	1					1			
16-7	A	3				1		2		
16-9	A	4					2	2		
16-10	A	3					3			
16-11	A	2					2			
16-12	A	1			1					
16-A10*	I	10							10	
18-1**	--	10						10		
18-3	D	2					2			
18-4	D	4						4		
18-5	D	3					2	1		
18-6	D	1			1					
18-06	A	6					4	2		
18-7	B	1				1				
18-8	A	8					1	7		
18-9	I	7					2	5		
18-10	A	4					4			
18-10S MT	A	4					4			
18-11	A	5					5			
18-12	A	6						6		
18-13	A	4				1	3			
18-16	C	1					1			
18-19	A	10						10		
18-20	A	5						5		
18-22	D	3						3		
18-30 (18-20x110°)	A	5						5		
20-2	D	1		1						
20-3	D	3					3			
20-4	D	4					4			
20-6	D	3						3		
20-7**	--	8						8		
20-8	I	6				2		4		

Contact			Contact Size							
Layout	Rating	Qty	4/0	0	4	8	12	16	18	20
20-9**	--	8					1	7		
20-11	I	13						13		
20-14	A	5				2	3			
20-15	A	7					7			
20-16	A	9					2	7		
20-17	A	6					5	1		
20-18	A	9					3	6		
20-19	A	3				3				
20-21	A	9					1	8		
20-22	A	6				3		3		
20-23	A	2				2				
20-24	A	4				2		2		
20-A24	A	4				2		2		
20-25 (20-11x100°)	I	13						13		
20-27	A	14						14		
20-29	A	17						17		
20-30 (20-11x250°)	I	13						13		
20-33	A	11						11		
20-A8	I	8				2		6		
20-A9**	--	9					9			
20-A48	I	19						19		
20-B8	A	8					4	4		
22-1	D	2				2				
22-2	D	3				3				
22-4	A	4				2	2			
22-5	D	6					2	4		
22-7	E	1		1						
22-9	E	3					3			
22-10	E	4						4		
22-11	B	2						2		
22-12	D	5				2		3		
22-14	A	19						19		
22-15**	--	6					5	1		
22-17**	--	9					1	8		
22-18**	--	8						8		
22-19	A	14						14		
22-20	A	9						9		
22-21	A	3		1				2		
22-22	A	4				4				
22-23**	--	8					8			
22-27**	--	9				1		8		
22-28	A	7					7			
22-34	D	5					3	2		

* Only crimp contact version

** Multiple contact sizes; see insert arrangement layouts in this section



IAW MIL-DTL-5015
STANDARD INSERT ARRANGEMENTS



For Seacrow (ITS-MB and IGE-MB), Radgrip (ITS-RG),
and Nuclear-Grade (ITS-NG) Connectors

Contact			Contact Size							
Layout	Rating	Qty	4/0	0	4	8	12	16	18	20
22-82	A	10				2		8		
22-A10	A	10						10		
22-A37*	A	37							37	
22-22S MT	A	4				4				
24-2	D	7					7			
24-3	A	7					2	5		
24-4	D	4		1				3		
24-5	A	16						16		
24-06	D	6				4		2		
24-6**	--	8					8			
24-07	D	7					7			
24-7	A	16					2	14		
24-9	A	2			2					
24-10	A	7				7				
24-11	A	9				3	6			
24-12	A	5			2		3			
24-013	A	13					6	7		
24-19	A	12						12		
24-20	D	11					2	9		
24-22	D	4				4				
24-27	E	7						7		
24-28	I	24						24		
24-67	A	19					19			
24-A1	B	1		1						
24-A8	A	8				5	3			
24-A11	A	11				2		9		
24-A12	A	12			2			10		
24-A25	A	25						25		
24-A28	I	28						28		
24-A55*	I	55								55
24-G5	A	5				5				
28-1**	--	9				3	6			
28-2	D	14					2	12		
28-3	E	3				3				
28-6	D	3			3					
28-09	A	9			4			5		
28-9	D	12					6	6		
28-10**	--	7			2	2	3			
28-11	A	22					4	18		
28-12	A	26						26		
28-13 (28-12x100°)	A	26						26		
28-15	A	35						35		
28-16	A	20						20		
28-17**	--	15						15		
28-18**	--	12						12		

Contact			Contact Size							
Layout	Rating	Qty	4/0	0	4	8	12	16	18	20
28-19**	--	10					4	6		
28-20	A	14					10	4		
28-21	A	37						37		
28-22	D	6				3		3		
28-51	D	12					12			
28-59	A	17					7	10		
28-70	A	7				7				
28-72*	I	72								72
28-84	A	9				9				
28-124	A	16				4		12		
28-A29	A	29				2		27		
28-A31*	A	31				6				25
28-A35	A	35						35		
28-A63	I	28					9	19		
28-B1	B	1		1						
28-B2	E	2				2				
32-1**	--	5		2			3			
32-2	E	5				3		2		
32-3	D	9		1	2		2	4		
32-5	D	2		2						
32-6	A	23			2	3	2	16		
32-7**	--	35					7	28		
32-8	A	30					6	24		
32-9	D	14			2			12		
32-013	D	13					13			
32-13	D	23					5	18		
32-15	D	8		2			6			
32-17	D	4			4					
32-22	A	54						54		
32-31	A	31						31		
32-59	A	42				2		40		
32-68	A	16			4			12		
32-689	A	9			3			6		
32-A5GM	A	5			5					
32-76	A	19					19			
32-79	D	5			4	1				
32-88	A	54						54		
32-A1	A	1	1							
32-A3	E	3			3					
32-A8	A	8				8				
32-A25	A	25					25			
32-A27	A	27					10	17		
32-A28	A	28					28			
32-A30	A	30					10	20		
32-A40	A	40						40		

* Only crimp contact version

** Multiple contact sizes; see insert arrangement layouts in this section



I AW MIL-DTL-5015 Standard Insert Arrangements



For Seacrow (ITS-MB and IGE-MB), Radgrip (ITS-RG),
and Nuclear-Grade (ITS-NG) Connectors

SUPER ITS: APPENDIX - INSERT ARRANGEMENTS / ACCESSORIES

Contact			Contact Size							
Layout	Rating	Qty	4/0	0	4	8	12	16	18	20
32-A48	I	48						48		
32-A55	A	55						55		
32-B22	A	22			2			20		
36-01	C	1	1							
36-3	D	6		3			3			
36-4**	--	3		3						
36-5	A	4		4						
36-6	A	6		2	4					
36-7	A	47				7	40			
36-8	A	47				1	46			
36-9	A	31		1	2	14	14			
36-10	A	48					48			
36-14	D	16			5	5	6			
36-15**	--	35					35			
36-18 (36-9x100*)	A	31		1	2	14	14			
36-22	D	22				22				
36-35	A	36			4		32			
36-54 = 36-B39	A	39			8		31			
36-66	A	56				4	52			
36-74	A	44			1		43			
36-77	D	7		7						
36-A7	A	7	3	2		2				
36-A10	A	10		2	8					
36-A35	A	8	4				4			
36-A51	D	6	3	2			1			
36-A72*	I	72				4	16	52		
36-A99*	A	65					15		50	
36-B61	E	6		2			4			
36-B78	D	14			12		2			
36-B90	D	1	n.1 Special Contact							
36-D78	D	14			10		4			
40-1	D	30				6	24			
40-9	A	47			1	22	24			
40-10	A	29		4	9		16			
40-26	A	26			7	19				
40-31	D	31				31				
40-35	D	35				35				
40-47	A	47			1	22	24			
40-53	A	60					60			
40-56	A	85					85			
40-62	A	60					60			
40-63	A	61					61			
40-67	A	11		10			1			
40-100*	A	100						100		
40-150*	I	150						150		

Contact			Contact Size							
Layout	Rating	Qty	4/0	0	4	8	12	16	18	20
40-951	A	51					25	26		
40-A3	A	5	3				2			
40-A4	A	6	4				2			
40-A5	A	5	3	1			1			
40-A5GM	A	5	5							
40-A6	B	6					6			
40-A8	E	8	4					4		
40-A9	A	9	3			6				
40-A10	D	8		4				4		
40-A14	A	14		8			6			
40-A20	D	20				2	18			
40-A24	D	24				8	16			
40-A38	A	38					38			
40-A51	A	31				15		16		
40-A55	A	5	5							
40-A56	A	85						85		
40-A62	A	62				2		60		
40-A65	A	65						65		
40-A70	A	70						70		
40-B4	E	4	4							
40-B19	A	19				19				
40-B25	A	29	4					25		
40-B37	A	37					37			
40-D4	C	4				4				
40-G4	E	4				4				

* Only crimp contact version

** Multiple contact sizes; see insert arrangement layouts in this section



IAW MIL-DTL-5015 Standard Insert Arrangements



For Seacrow (ITS-MB and IGE-MB), Radgrip (ITS-RG),
and Nuclear-Grade (ITS-NG) Connectors

Layout	Number of Contacts		Standard Insert	Alternate Position	Contact Material
	#16	#12			
10SL-51	2	—	10SL-4	45	A=Fe; B=Con
10SL-52	2	—	10SL-4	45	A=Cu; B=Con
10SL-53	2	—	10SL-4	45	A=Al; B=Ch
10SL-54	3	—	10SL-3	—	A=Fe; B=Con; C=Cu
10SL-55	3	—	10SL-3	—	A=Al; B=Ch; C=Cu
10SL-56	2	—	10SL-4	—	A=Al; B=Ch
10SL-57	2	—	10SL-4	—	A=Con; B=Ch
12S-51	2	—	12S-3	315	A=Ch; B=Al
12S-54	2	—	12S-3	315	A=Fe; B=Con
12S-55	2	—	12S-3	45	A=Cu; B=Con
12S-56	2	—	12S-3	—	A=Al; B=Ch
12S-57	2	—	12S-3	60	A=Ch; B=Al
12S-58	2	—	12S-3	120	A=Fe; B=Con
12S-59	2	—	12S-3	—	A=Fe; B=Con
12S-62	2	—	12S-3	—	A=Ch; B=Al
14S-51	2	—	14S-9	90	A=Al; B=Ch
14S-52	4	—	14S-2	45	A, B=Cu; C=Al; D=Ch
14S-53	2	—	14S-9	90	A=Fe; B=Con
14S-54	6	—	14S-6	45	A, C, E=Fe; B, D, F=Con
14S-55	4	—	14S-2	45	A, C=Fe; B, D=Con
14S-56	4	—	14S-2	45	A=Fe; B=Con; C, D=Cu
14S-57	4	—	14S-2	45	A, C=Al; B, D=Ch
14S-58	3	—	14S-4	45	A=Al; B=Ch; C=Cu
14S-59	2	—	14S-9	90	A=Cu; B=Con
14S-60	2	—	14S-9	—	A=Al; B=Ch
14S-61	6	—	14S-6	45	A=Al; B=Ch; C=Fe; D=Con; E, F=Cu
14S-63	6	—	14S-6	—	A, C=Al; B, D=Ch; E=Fe; F=Con
14S-64	4	—	14S-2	—	A, C=Con; B, D=Cu
14S-65	6	—	14S-6	—	A, C, E=Cu; B, D, F=Con
14S-67	6	—	14S-6	—	A=Al; B=Ch; Bal=Cu
14S-68	4	—	14S-2	45	A=Ch; B=Con; C, D=Cu
14S-69	3	—	14S-7	—	A=Con; B=Ch; C=Cu
14S-70	4	—	14S-2	—	A=Ch; D=Al; Bal=Cu
14S-71	4	—	14S-2	—	n°2=Ch; n°2=Con
14S-72	4	—	14S-2	—	A, C=Fe; B, D=Con
14S-73	4	—	14S-2	—	A, C=Ch; B, D=Al
14S-74	4	—	14S-2	—	A=Al; B=Ch; Bal=Cu
14S-77	6	—	14S-6	—	A, B, C=Al; D, E, F=Ch
14S-78	4	—	14S-2	—	A, B=Al; C, D=Ch
14S-79	5	—	14S-5	—	n°1=Al; n°1=Ch, Bal=Cu
14S-80	3	—	14S-7	—	n°2=Fe; n°1=Con
16S-50	5	—	16S-8	—	n°1=Con; n°1=Fe, n°3=Cu

Layout	Number of Contacts		Standard Insert	Alternate Position	Contact Material
	#16	#12			
16S-51	7	—	16S-1	—	A, F=Al; B=Ch; Bal=Cu
16S-52	2	—	16S-4	—	A=Ch; B=Al
16S-53	3	—	16S-5	—	A, B, C=Fe
16S-54	7	—	16S-1	—	A=Al; B=Ch; Bal=Cu
10SL-51	2	—	10SL-4	45	A=Fe; B=Con
10SL-52	2	—	10SL-4	45	A=Cu; B=Con
10SL-53	2	—	10SL-4	45	A=Al, B=Ch
10SL-54	3	—	10SL-3	—	A=Fe; B=Con, C=Cu
10SL-55	3	—	10SL-3	—	A=Al; B=Ch, C=Cu
10SL-56	2	—	10SL-4	—	A=Al; B=Ch
10SL-57	2	—	10SL-4	—	A=Con; B=Ch
12S-51	2	—	12S-3	315	A=Ch; B=Al
12S-54	2	—	12S-3	315	A=Fe; B=Con
12S-55	2	—	12S-3	45	A=Cu; B=Con
12S-56	2	—	12S-3	—	A=Al; B=Ch
12S-57	2	—	12S-3	60	A=Ch; B=Al
12S-58	2	—	12S-3	120	A=Fe; B=Con
12S-59	2	—	12S-3	—	A=Fe; B=Con
12S-62	2	—	12S-3	—	A=Ch; B=Al
14S-51	2	—	14S-9	90	A=Al; B=Ch
14S-52	4	—	14S-2	45	A, B=Cu; C=Al, D=Ch
14S-53	2	—	14S-9	90	A=Fe; B=Con
14S-54	6	—	14S-6	45	A, C, E=Fe; B, D, F=Con
14S-55	4	—	14S-2	45	A, C=Fe; B, D=Con
14S-56	4	—	14S-2	45	A=Fe; B=Con; C, D=Cu
14S-57	4	—	14S-2	45	A, C=Al; B, D=Ch
14S-58	3	—	14S-4	45	A=Al; B=Ch; C=Cu
14S-59	2	—	14S-9	90	A=Cu; B=Con
14S-60	2	—	14S-9	—	A=Al; B=Ch
14S-61	6	—	14S-6	45	A=Al; B=Ch; C=Fe; D=Con; E, F=Cu
14S-63	6	—	14S-6	—	A, C=Al; B, D=Ch; E=Fe; F=Con
14S-64	4	—	14S-2	—	A, C=Con; B, D=Cu
14S-65	6	—	14S-6	—	A, C, E=Cu; B, D, F=Con
14S-67	6	—	14S-6	—	A=Al; B=Ch; Bal=Cu
14S-68	4	—	14S-2	45	A=Ch; B=Con; C, D=Cu
14S-69	3	—	14S-7	—	A=Con; B=Ch; C=Cu
14S-70	4	—	14S-2	—	A=Ch; D=Al; Bal=Cu
14S-71	4	—	14S-2	—	n°2=Ch; n°2=Con
14S-72	4	—	14S-2	—	A, C=Fe; B, D=Con
14S-73	4	—	14S-2	—	A, C=Ch; B, D=Al
14S-74	4	—	14S-2	—	A=Al; B=Ch; Bal=Cu
14S-77	6	—	14S-6	—	A, B, C=Al; D, E, F=Ch
14S-78	4	—	14S-2	—	A, B=Al; C, D=Ch
14S-79	5	—	14S-5	—	n°1=Al; n°1=Ch, Bal=Cu
14S-80	3	—	14S-7	—	n°2=Fe; n°1=Con
16S-50	5	—	16S-8	—	n°1=Con; n°1=Fe, n°3=Cu

SUPER ITS: APPENDIX - INSERT ARRANGEMENTS / ACCESSORIES





IAW MIL-DTL-5015 Standard Insert Arrangements



For Seacrow (ITS-MB and IGE-MB), Radgrip (ITS-RG),
and Nuclear-Grade (ITS-NG) Connectors

SUPER ITS: APPENDIX - INSERT ARRANGEMENTS / ACCESSORIES

D

Layout	Number of Contacts		Standard Insert	Alternate Position	Contact Material
	#16	#12			
14S-79	5	—	14S-5	—	n°1=Al; n°1=Ch; Bal=Cu
14S-80	3	—	14S-7	—	n°2=Fe; n°1=Con
16S-50	5	—	16S-8	—	n°1=Con; n°1=Fe; n°3=Cu
16S-51	7	—	16S-1	—	A, F=Al; B=Ch; Bal=Cu
16S-52	2	—	16S-4	—	A=Ch; B=Al
16S-53	3	—	16S-5	—	A, B, C=Fe
16S-54	7	—	16S-1	—	A=Al; B=Ch; Bal=Cu
16S-55	2	—	16S-4	—	n°1=Con; n°1=Cu
16S-56	7	—	16S-1	—	A, D=Fe; B, E=Con; Bal=Cu
16S-57	3	—	16S-5	—	n°1=Ch; n°1=Al; n°1=Cu
16S-58	5	—	16S-8	—	n°2=Fe; n°2=Con; n°1=Cu
16S-59	7	—	16S-1	—	n°3=Al; n°3=Ch; n°1=Cu
16-13	2	—	16-13	—	A=Fe; B=Con
16-52	2	—	16-11	90	A=Al; B=Ch
16-53	2	2	16-9	70	A=Al; C=Ch; B, D=Cu
16-55	—	3	16-10	45	A=Al; B=Ch; C=Cu
16-56	—	2	16-13	90	A=Con; B=Cu
16-57	—	3	16-10	—	A=Al; B=Cu; C=Ch
16-58	—	3	16-10	—	A=Con; B, C=Cu
16-60	—	2	16-13	—	A=Al; B=Ch
18-15	—	4	18-15	—	A, C=Fe; B, D=Con
18-41	4	—	18-4	—	A, C=Fe; B, D=Con
18-42	4	—	18-4	—	A, C=Al; B, D=Ch
18-43	4	—	18-4	—	A, C=Ch; B, D=Con
18-44	3	—	18-22	—	n°1=Al; n°1=Ch; n°1=Cu
18-45	5	—	18-20	—	A=Fe; B=Con; Bal=Cu
18-46	4	—	18-4	—	n°1=Ch; n°1=Al; n°2=Cu
18-47	4	—	18-4	—	A, C=Ch; B, D=Al
18-49	10	—	18-1	—	n°3=Fe; n°3=Con; Bal=Cu
18-50	—	2	18-3	—	n°1=Al; n°1=Ch
18-51	6	—	18-12	—	A, B=Fe; E, D=Con; C, F=Cu / (A=Fe; B, E=Con; D=Cu; C,F=Dummy)
18-52	—	5	18-11	—	A=Fe; B=Con; C=Ch; D=Al; E=Cu / (A=Fe; B=Con; C=Ch; D=Al; E=Dummy)
18-53	6	—	18-12	—	A, D=Fe; B, E=Con; C, F=Cu / (A, D=Fe; B, E=Con; C, F=Dummy)

Layout	Number of Contacts		Standard Insert	Alternate Position	Contact Material
	#16	#12			
18-54	—	4	18-15	—	A, C=Al; B, D=Ch
18-56	10	—	18-1	45	A, C, E, G, I=Fe; B, D, F, H, J=Con
18-57	6	—	18-12	45	A, C, E=Al; B, D, F=Ch
18-59	6	—	18-12	45	A, C=Fe; B, E, F=Con; D=Cu
18-60	—	5	18-11	45	A, D=Al; B, C=Ch; E=Cu
18-61	6	—	18-12	—	A, C=Fe; B, D=Con; E=Ch; F=Al
18-62	6	—	18-12	—	A, B, C=Fe; D, E, F=Con
18-63	—	4	18-15	—	A, C=Con; B, D=Cu
18-65	6	—	18-12	—	A=Fe; B=Con - Bal=Cu
18-66	10	—	18-1	—	A, C, E, G, I=Cu; B, D, F, H, J=Con
18-67	6	—	18-12	—	A, C, E=Cu; B, D, F=Con
18-68	5	—	18-11	—	A, D=Al; B, C=Ch; E=Cu
18-69	10	—	18-1	—	A=Al; B, C=Ch; Bal=Cu
18-70	—	5	18-11	—	A=Fe; B=Con; C=Ch; D=Al; E=Cu
18-71	6	—	18-12	—	n°2=Al; n°2=Ch; n°2=Cu
18-72	—	4	18-10	45	n°2=Fe; n°2=Con
18-73	—	4	18-10	—	n°2=Fe; n°2=Con
18-74	—	4	18-10	—	n°2=Con; n°2=Cu
18-75	10	—	18-1	—	n°2=Al; n°2=Ch; Bal=Cu
20-222	3	3#8	20-22	-	B=Fe; D=Con; Bal=Cu
20-50	17	-	20-29	-	n°7=Al; n°7=Ch; n°3=Cu
20-51	8	-	20-7	-	A, C, E, G=Ch; B, D, F, H=Al
20-52	-	4	20-4	315	A=Fe; B=Con; C=Ch; D=Al
20-56	-	8	20-7	45	A, B, G, H=Fe; C, D, E, F=Con
20-60	8	-	20-7	45	D=Ch; E=Al; Bal=Cu
20-61	17	-	20-29	45	A, B, M=Cu; Bal=Con
20-62	-	7	20-15	80	A, C, E=Al; B, D, F=Ch; G=Cu
20-64	14	-	20-27	-	H=Al; C=Ch; Bal=Cu
20-641	14	-	20-27	-	A, B, C, D, E, F, G=Al; H, I, J, K, L, M, N=Ch
20-65	14	-	20-27	-	A, B, C, D, E, F, G=Fe; H, I, J, K, L, M, N=Con
20-67	7	2	20-16	-	H=Al; I=Ch; Bal=Cu



IAW MIL-DTL-5015 Thermocouple Insert Arrangements



For Seacrow (ITS-MB and IGE-MB), Radgrip (ITS-RG),
and Nuclear-Grade (ITS-NG) Connectors

Layout	Number of Contacts		Standard Insert	Alternate Position	Contact Material
	#16	#12			
20-68	8	-	20-7	-	A, B, G, H=Con; C, D, E, F=Cu
20-69	14	-	20-27	-	A, B, C, D, E, F, G=Cu; H, I, J, K, L, M, N=Con
20-70	17	-	20-29	-	A, C, E, G, J, L, N, R, T=Fe; B, D, F, H, K, M, P, S=Con
20-71	17	-	20-29	-	S=A; R=Ch; Bal=Cu
20-74	17	-	20-29	-	A, C, E, G, J, L, N, R=Fe; B, D, F, H, K, M, P, S=Con; T=Cu
20-75	-	7	20-15	-	G=Al; Bal=Ch
20-76	17	-	20-29	-	n°8=Ch; n°8=Al; n°1=Cu
20-78	-	4	20-4	-	A=Fe; B=Con; Bal=Cu
20-80	-	3	20-3	-	A=Al; C=Ch; B=Cu
20-81	8	1	20-21	-	n°4=Al; n°4=Ch; I=Cu
20-82	14	-	20-27	-	n°4=Al; n°10=Cu
20-83	14	-	20-27	-	A, B=Ch; C, D=Al; Bal=Cu
20-84	3	3#8	20-22	-	B=Al; D=Ch; Bal=Cu
20-85	14	-	20-27	-	n°12=Ch; n°1=Al; n°1=Cu
20-86	14	-	20-27	-	n°2=Al; n°12=Ch
22-36	-	8	22-36	-	B, D, F, H=Con; A, C, E, G=Fe
22-57	19	-	22-14	45	A, C, E, G, J, L, N, R=Fe; B, D, F, H, K, M, P, S=Con; T, U, V=Cu
22-60	19	-	22-14	45	U=Al; N=Ch; Bal=Cu
22-62	-	8	22-23	300	A, B, F, G=Al; C, D, E, H=Ch
22-68	14	-	22-19	45	A, C, E, G, J, L, M=Fe; B, D, F, H, K, P, N=Con
22-69	14	-	22-19	45	A, C, E, G, J, L, M=Cu; B, D, F, H, K, P, N=Con
22-71	19	-	22-14	-	V=Al; U=Ch; Bal=Cu
22-72	4	2	20-5	-	B=Al; E=Ch; Bal=Cu
22-73	4	2	20-5	-	E=Al; B=Ch; Bal=Cu
22-74	-	8	22-23	-	A, C, E, G=Fe; B, D, F, H=Con
22-75	-	8	22-23	-	A=Al; B, D, G, H=Cu; C=Ch; E=Fe; F=Con
22-77	14	-	22-19	-	B, D, F, H, J, K, M, P=Cu; A, E, L=Fe; C, G, N=Con
22-78	19	-	22-14	-	A, C, E, G, H, K, M, P, R, T=Con; Bal=Cu
22-79	4	-	22-10	-	A, C=Con; B, D=Cu

Layout	Number of Contacts		Standard Insert	Alternate Position	Contact Material
	#16	#12			
22-81	2	3	22-34	-	E=Fe; D=Con; Bal=Cu
22-82	19	-	22-14	-	A, L, C, E, G, J=Fe; B, M, D, F, H, K=Con; N, U, P, R, S, T=Cu; V=Dummy
22-83	19	-	22-14	-	A, L, C, E, G, J=Al; B, M, D, F, H, K=Con; N, U, P, R, S, T=Cu; V=Dummy
22-85	4	2	22-5	-	n°2=Al; n°2=Ch; Bal=Cu
24-412	12	-	24-19	-	n°6=Cu; n°6=Con
24-56	9	2	24-20	45	E=Al; F=Ch; Bal=Cu
24-57	24	-	24-28	45	A, C, J, V, Y, W, K, E, H, U, S, M=Ch; Bal=Al
24-62	24	-	24-28	-	A, C, E, G=Fe; B, D, F, H=Con; R, T=Ch; S, U=Al; Bal=Cu
24-621	24	-	24-28	-	A, C, E, G, J, L, K, N, S, U, W, Y=Fe; B, D, H, Q, R, M, P, T, V, X, Z=Con
24-622	24	-	24-28	-	A, C, E, G, J, L, K, N, S, U, W, Y=Ch; B, D, F, H, Q, R, M, P, T, V, X, Z=Al
24-63	24	-	24-28	-	A, C, E, G, J, L, K, N, S, U, W, Y=Cu; B, D, F, H, Q, R, M, P, T, V, X, Z=Con
24-64	16	-	24-5	-	A, B, C, D, E, F, G, H=Fe; J, K, L, M, N, P, R, S=Con
24-68	24	-	24-28	-	D=Con; Bal=Cu
24-69	12	-	24-19	-	n°5=Con; n°7=Cu
24-71	16	-	24-5	-	A, B, C, D, E, F, G, H=Al; J, K, L, M, N, P, R, S=Ch
28-201	4	10	28-20	-	A, C, E, G, J, P=Con; Bal=Cu
28-53	18	4	28-11	45	J, L=Al; K, M=Ch
28-58	4	10	28-20	45	A, C, E, G, K, M=Al; B, D, F, H, L, N=Ch; J, P=Cu
28-61	37	-	28-21	45	A, C, Z, m, r, n, a, K, F, H, X, k, h, T, M, N, d=Fe; Bal=Con
28-63	4	10	28-20	315	A, C, E, G, J=Al; B, D, F, H, P=Ch; Bal=Cu
28-64	35	-	28-15	-	A, d=Al; B, j=Ch; C, D, E, F, G, N, P, R, S, H, J, K, L, M, W, X, Y, Z = Con; Bal = Cu

SUPER ITS: APPENDIX - INSERT ARRANGEMENTS / ACCESSORIES

D



IAW MIL-DTL-5015

Thermocouple Insert Arrangements



For Seacrow (ITS-MB and IGE-MB), Radgrip (ITS-RG), and Nuclear-Grade (ITS-NG) Connectors

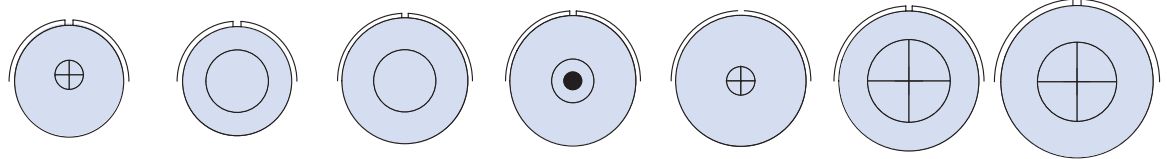
SUPER ITS: APPENDIX - INSERT ARRANGEMENTS / ACCESSORIES

Layout	Number of Contacts		Standard Insert	Alternate Position	Contact Material
	#16	#12			
28-65	26	-	28-12	-	A, C, E, G, J, L, N, R, T, V = Fe; X, Z = Al; B, D, F, H, K, M, P, S, U, W = Con; Y, a = Ch; b, d = Cu
28-66	20	-	28-16	-	n°10=Con; n°10=Cu
28-67	20	-	28-16	-	U=Con; Bal=Cu
28-68	35	-	28-15	45	T=Al; U=Ch; Bal=Cu
28-69	18	4	28-11	-	G=Al; R=Ch; Bal=Cu
28-70	18	4	28-11	-	A=Al; B=Ch; Bal=Cu
28-77	20	-	28-16	-	n°6=Fe; n°6=Con; Bal=Cu
28-78	35	-	28-15	-	A, B=Ch; C, D=Al; Bal=Cu
28-80	20	-	28-16	-	n°10=Fe; n°10=Con
28-81	35	-	28-15	-	n°10=Al; n°10=Ch; Bal=Cu
28-811	35	-	28-15	-	n°17=Ch; n°17=Al; n°1=Dummy
28-82	35	-	28-15	-	n°12=Fe; n°12=Con; Bal=Cu
32-50	34	6	32-8	-	M=Ch; N=Al; Bal=Cu
32-51	24	6	32-8	90	M=Ch; N=Al; Bal=Cu
32-55	24	6	32-8	125	M, N=Ch; O, P=Al; Bal=Cu
32A-401	40	-	32A-40	-	n°13=Al; n°13=Ch; n°14=Cu
36-101	48	-	36-10	-	n°24=Al; n°24=Ch
36-102	48	-	36-10	-	n°24=Ch; n°24=Con
36-53	40	7	36-7	45	U, V, W =Al; X, Y, Z=Ch; Bal=Cu
36-56	48	-	36-10	-	A, C, E, G, L, J, H, P, R, T, V, X, Z, b, d, f, h, k, q, m, n, u, w, y=Con - Bal=Cu
36-57	46	1	36-8	-	W =Al; f=Ch; Bal=Cu
36-58	35	-	36-15	-	H=Al; G=Ch; Bal=Cu
36-61	35	-	36-15	-	A, C, E, J, K, L, M, N, P, R, T, V, f, X, Y, h, j, c = Con; Bal=Cu
36-62	48	-	36-10	-	A, C, E=Al; B, D, F=Ch; Bal=Cu
36-63	48	-	36-10	-	n°16=Al; n°16=Ch; n°16=Cu
36-64	48	-	36-10	-	n°24=Fe; n°24=Con

Layout	Number of Contacts		Standard Insert	Alternate Position	Contact Material
	#16	#12			
40-58	85	-	40-56	-	A, C, E, H, K, M, P, S, U, W, Y, a, c, f, h, j, m, p, r, t, v, x, z, AB, AD, AF, AJ, AL, AN, AP, AS, AU, AW, AY, BA, BC, BE, BH, BK, BM, BP, BS, BU=Fe; Bal=Con
40-59	85	-	40-56	-	B=Ch - C=Con - Bal=Cu

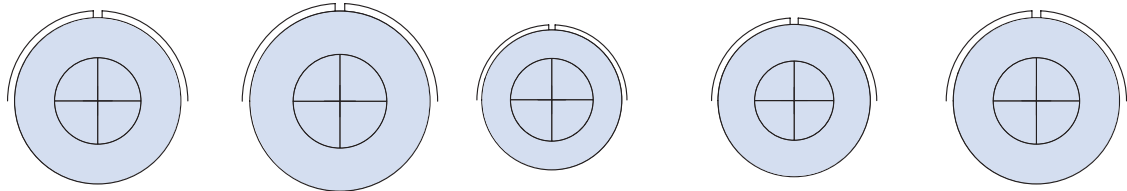
For Super ITS-MB Seacrow, Super ITS-RG Radgrip,
and Super ITS-NG Nuclear-Grade Connectors

1 CONTACT



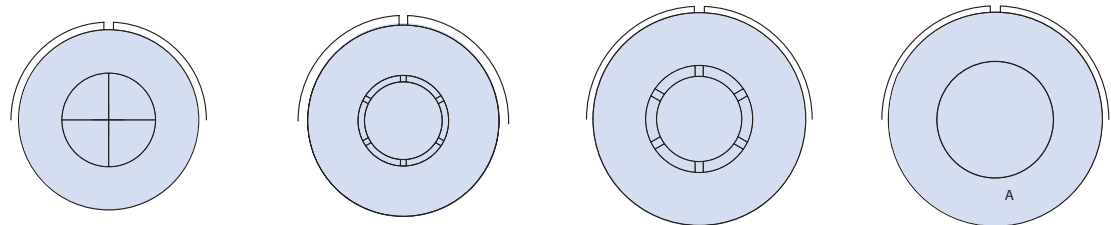
Arrangement	16-2	12-12	18-6	18-7	18-16	20-2	22-7
Contact Size	12	4	4	8	12	0	0
Service Rating	E	A	D	B	C	D	E

1 CONTACT



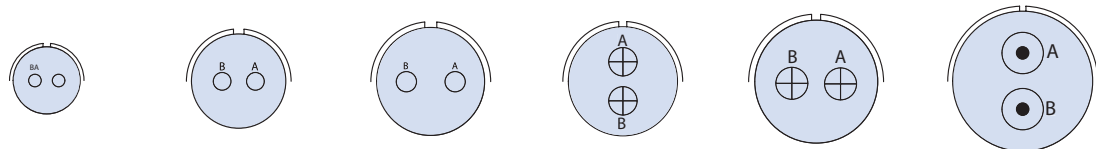
Arrangement	24-A1	28-B1	202	22-7	24-A1
Contact Size	0	0	0	0	0
Service Rating	B	B	D	E	B

1 CONTACT



Arrangement	28-B1	32-A1	36-01	36-B90
Contact Size	0	AWG 4/0	AWG 4/0	special
Service Rating	B	A	C	D

2 CONTACTS

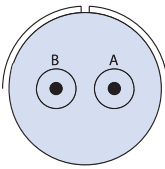
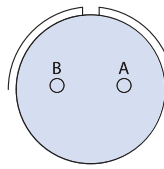
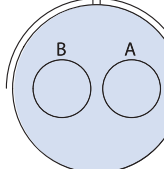
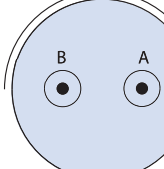
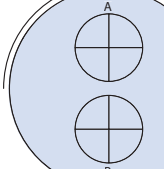







Arrangement	10SL-4	14S-9	16S-4	16-11	18-3	20-23
Contact Size	16	16	16	12	12	8
Service Rating	A	A	D	A	D	A






**CONTACT
LEGEND**








for Super ITS-MB Seacrow, Super ITS-RG Radgrip,
and Super ITS-NG Nuclear-Grade Connectors

2 CONTACTS					
Arrangement	22-1	22-11	24-9	28-B2	32-5
Contact Size	8	16	8	8	0
Service Rating	D	B	E	E	D

3 CONTACTS					
Arrangement	10SL-3	145-1	145-7	16S-5	16-7
Contact Size	16	16	16	16	1/8, 2/169
Service Rating	A	A	A	A	A

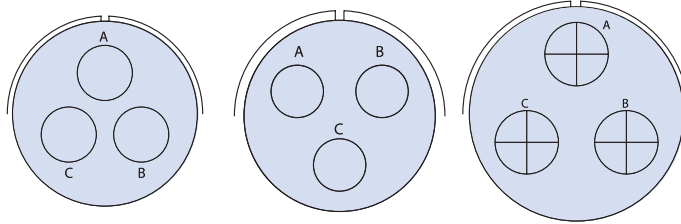
3 CONTACTS					
Arrangement	16-10	18-5	18-22	20-3	20-6
Contact Size	12	2/12, 1/16	16	12	16
Service Rating	A	D	D	D	D

3 CONTACTS					
Arrangement	20-19	22-2	22-9	22-21	28-3
Contact Size	B	8	12	1/0, 2/16	8
Service Rating	A	DV	E	A	E

CONTACT LEGEND								
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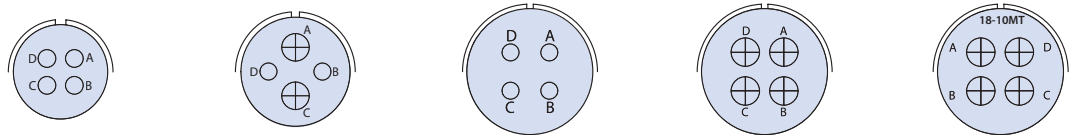
for Super ITS-MB Seacrow, Super ITS-RG Radgrip,
and Super ITS-NG Nuclear-Grade Connectors

3 CONTACTS



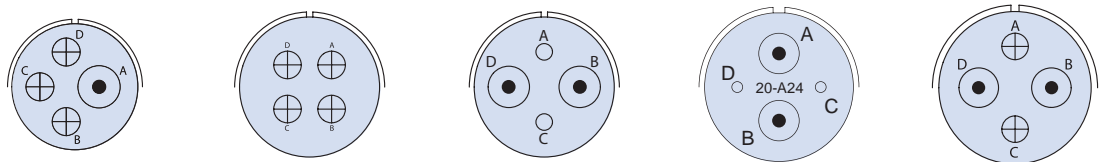
Arrangement	28-6	32-A3	36-4
Contact Size	4	4	0
Service Rating	D	E	A=D; B, C=A

4 CONTACTS



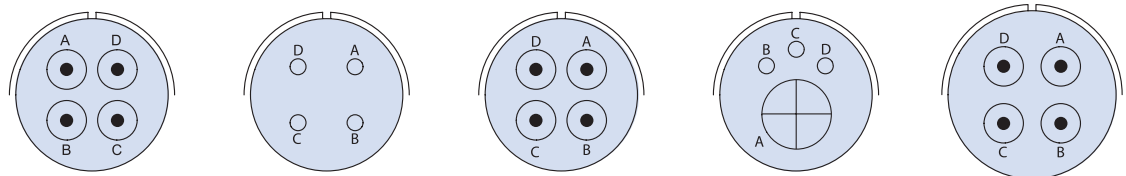
Arrangement	14S-2	16-9	18-4	18-10	18-10S MT*
Contact Size	16	2/12, 2/16	16	12	12
Service Rating	I	A	D	A	A

4 CONTACTS



Arrangement	18-13	20-4	20-24	20-A24	22-4
Contact Size	1/8, 3/12	12	2/8, 2/16	2/8, 2/16	2/8, 2/12
Service Rating	A	DS	A	A	A

4 CONTACTS

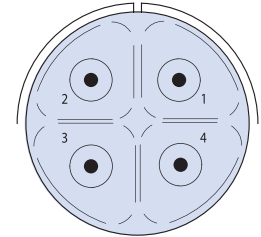
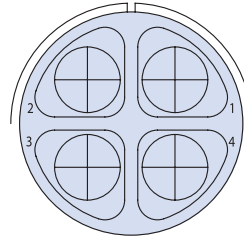
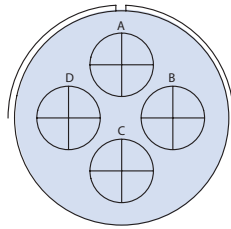
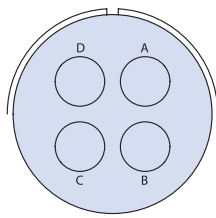


Arrangement	22-22S MT**	22-10	22-22	24-4	24-22
Contact Size	8	16	8	1/0, M 3/16	8
Service Rating	A	E	A	D	D

CONTACT LEGEND

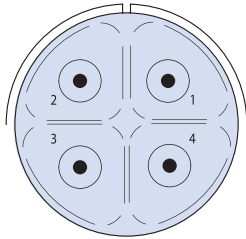


4 CONTACTS



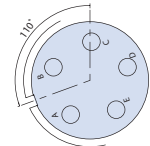
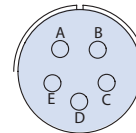
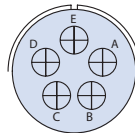
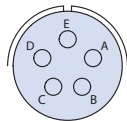
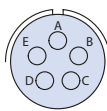
Arrangement	32-17	36-5	40-B4***	40-D4***
Contact Size	4	0	0	8
Service Rating	D	A	E	C

4 CONTACTS



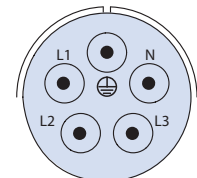
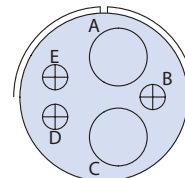
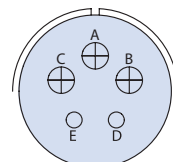
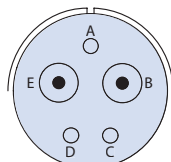
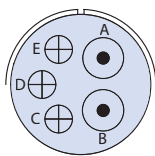
Arrangement	40-G4
Contact Size	8
Service Rating	E

5 CONTACTS



Arrangement	14S-5	16S-8	18-11	18-20	18-30 (18-20 X 110°)
Contact Size	16	16	12	16	16
Service Rating	I	A	A	A	A

5 CONTACTS

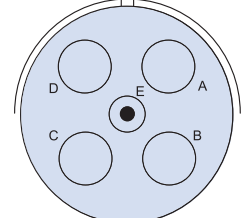
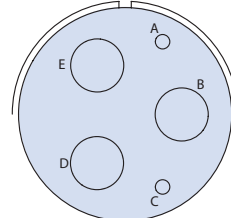
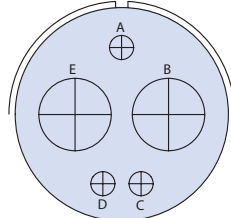
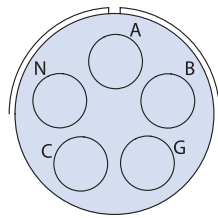


Arrangement	20-14	22-12	22-34	2412	24-G5
Contact Size	2/8, 3/12	2/8, 3/16	3/12, 2/16	2/4, 3/12	8
Service Rating	A	D	D	A	A

CONTACT LEGEND	20	18	16	12	80	4	4/0
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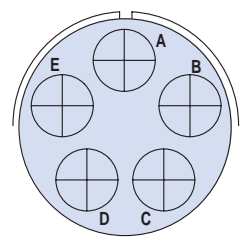
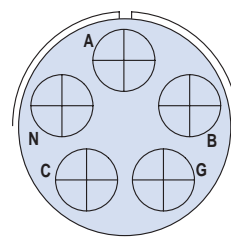
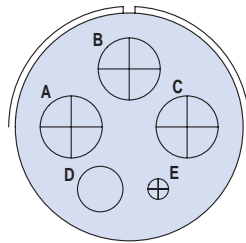
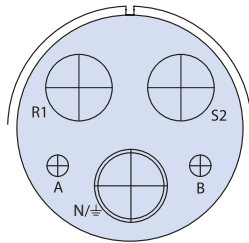
for Super ITS-MB Seacrow, Super ITS-RG Radgrip,
and Super ITS-NG Nuclear-Grade Connectors

5 CONTACTS



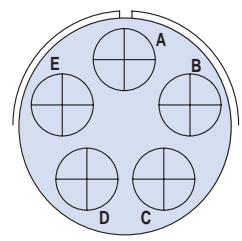
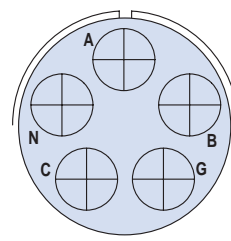
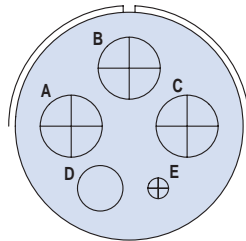
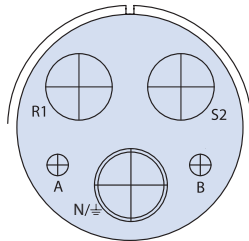
Arrangement	32-A5GM	32-1	32-2	32-79
Contact Size	4	2/0, 3/12	3/4, 2/16	4/4, 1/8
Service Rating	A	A=E; B,C, D, E=D	E	D

5 CONTACTS



Arrangement	40-A3	40-A5	40-A5 GM	40-A55
Contact Size	1/0M, 2/0, 2/12	3/0, 1/4, 1/12	0	0
Service Rating	A	A	A	A

5 CONTACTS



Arrangement	40-A3	40-A5	40-A5 GM	40-A55
Contact Size	1/0M, 2/0, 2/12	3/0, 1/4, 1/12	0	0
Service Rating	A	A	A	A

CONTACT LEGEND



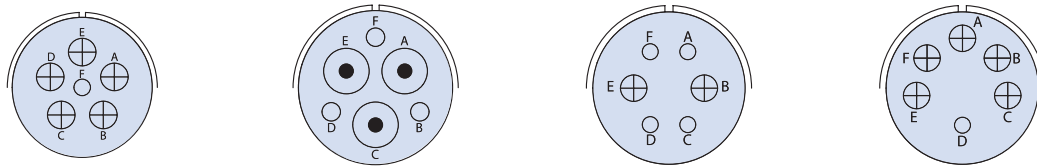
for Super ITS-MB Seacrow, Super ITS-RG Radgrip,
and Super ITS-NG Nuclear-Grade Connectors

6 CONTACTS



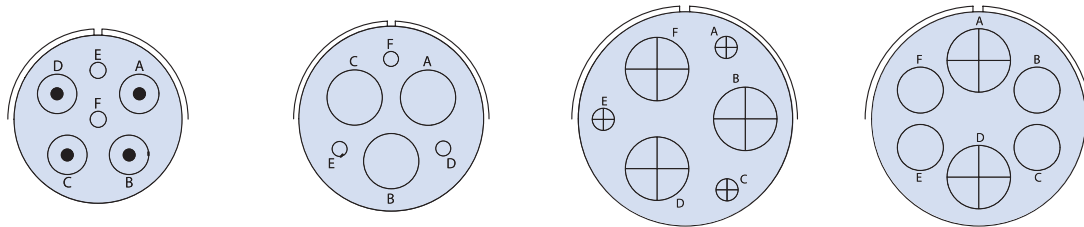
Arrangement	14S-6	18-06	18-12	20-8
Contact Size	16	4/12, 2/16	16	2/8, 4/16
Service Rating	I	A	A	I

6 CONTACTS



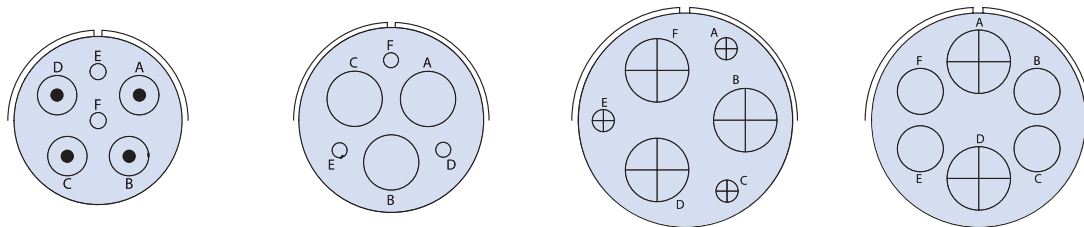
Arrangement	20-17	20-22	22-5	22-15
Contact Size	2/12, 4/16	3/8, 3/16	2/12, 4/16	D=E; A,B,C,E,F=A
Service Rating	D	A	D	

6 CONTACTS



Arrangement	24-06	28-22	36-3	36-6
Contact Size	4/8, 2/16	3/4, 3/16	3/0, 3/12	2/0, 4/4
Service Rating	D	D	D	A

6 CONTACTS

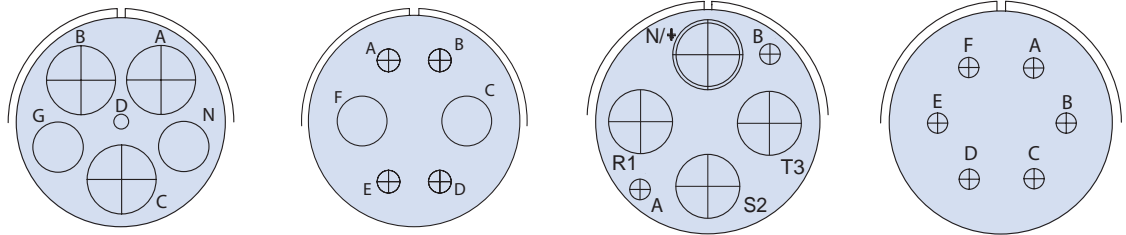


Arrangement	24-06	28-22	36-3	36-6
Contact Size	4/8, 2/16	3/4, 3/16	3/0, 3/12	2/0, 4/4
Service Rating	D	D	D	A

CONTACT LEGEND	20	18	16	12	80	4	4/0
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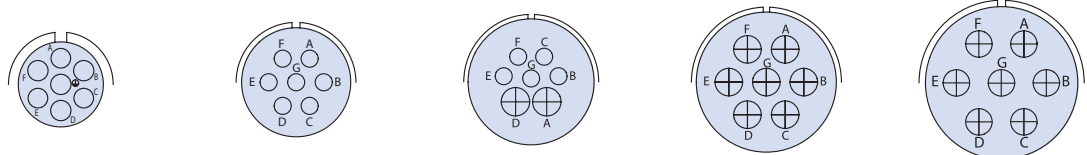
for Super ITS-MB Seacrow, Super ITS-RG Radgrip,
and Super ITS-NG Nuclear-Grade Connectors

6 CONTACTS



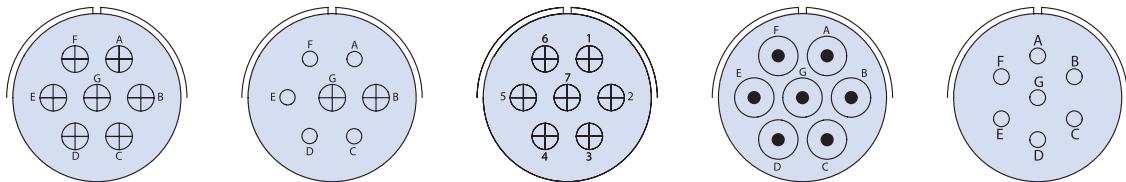
Arrangement	36-A51	36-B61	40-A4	40-A6
Contact Size	3/0, 2/4, 1/16	2/4, 4/12	1/0M, 3/0, 2/12	12
Service Rating	D	E	A	B

7 CONTACTS



Arrangement	14S-07	16S-1	18-9	20-15	22-28
Contact Size	16	16	2/12, 5/16	12	12
Service Rating	I	A	I	A	A

7 CONTACTS



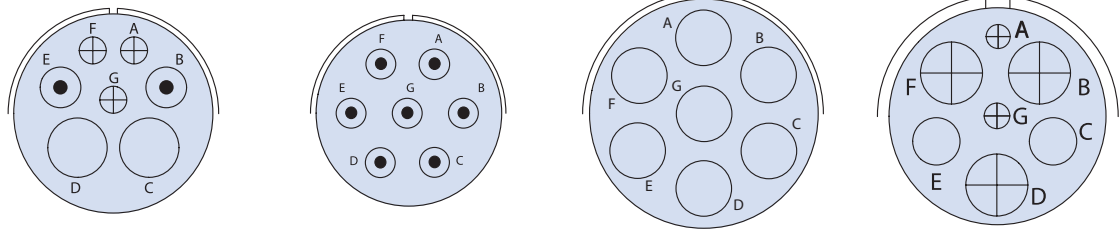
Arrangement	24-2	24-3	24-07	24-10	24-27
Contact Size	12	2/12, 5/16	12	8	16
Service Rating	D	A	D	A	E

CONTACT LEGEND



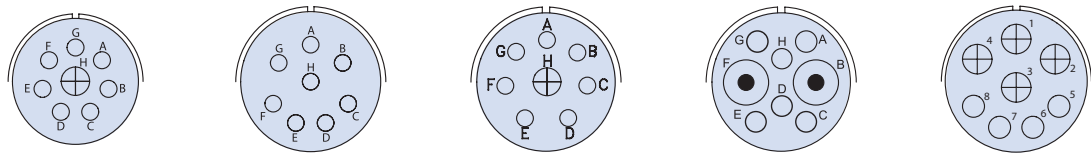
for Super ITS-MB Seacrow, Super ITS-RG Radgrip,
and Super ITS-NG Nuclear-Grade Connectors

7 CONTACTS



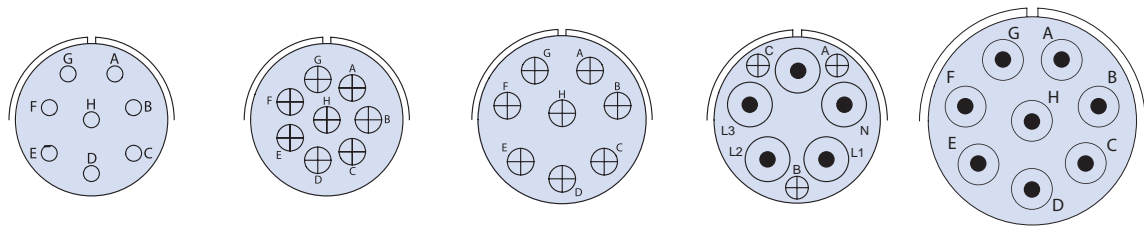
Arrangement	28-10	28-70	36-77	36-A7
Contact Size	2/4, 2/8, 3/	8	4	3/0, 2/4, 2/12
Service Rating	G=D; Bal=A	A	D	A

8 CONTACTS



Arrangement	18-8	20-7	20-9	20-A8	20-B8
Contact Size	1/12, 7/16	16	1/12, 7/16	2/8, 6/16	4/12, 4/16
Service Rating	A	A, B, H, G = D; C, D, E, F=A	H=D; Bal=A	I	A

8 CONTACTS



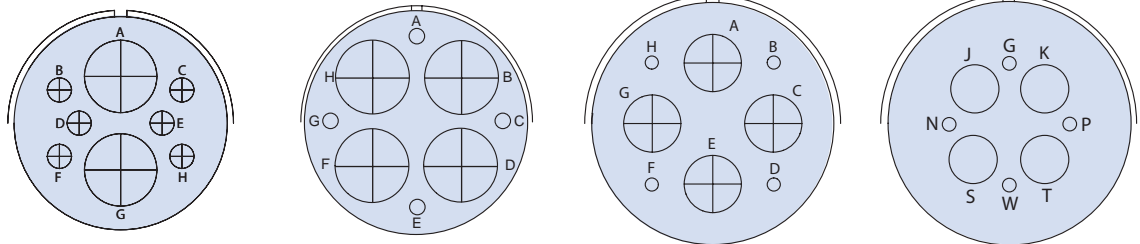
Arrangement	22-18	22-23	24-6	24-A8	32-A8
Contact Size	16	12	12	3/12, 5/8	8
Service Rating	A,B,F,G, H = D; C,D, E=A	H=D; Bal=A	A,G,H=D; Bal=A	A	A

CONTACT LEGEND



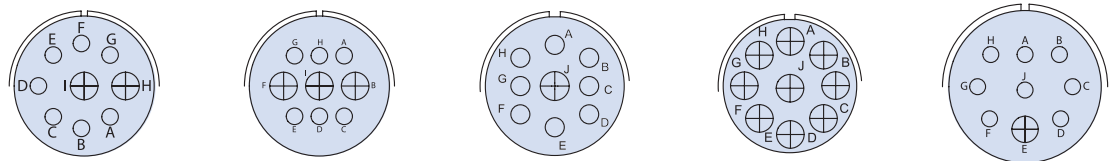
for Super ITS-MB Seacrow, Super ITS-RG Radgrip,
and Super ITS-NG Nuclear-Grade Connectors

9 CONTACTS



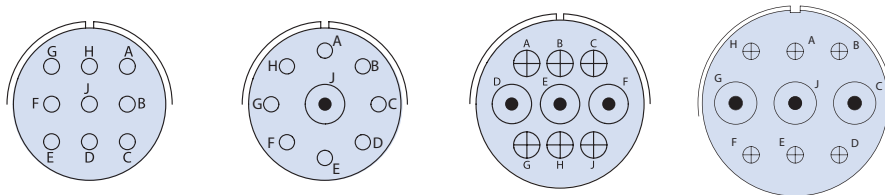
Arrangement	32-15	36-A35	40-A8	40-A10
Contact Size	2/0, 6/12	4/16, 4/0	4/0, 4/16	4/4, 4/16
Service Rating	D	A	E	D

9 CONTACTS



Arrangement	20-16	20-18	20-21	20-A9	22-17
Contact Size	2/12, 7/16	3/12, 6/16	1/12, 8/16	12	1/12, 8/16
Service Rating	A	A	A	J=D; Bal=A	A=D; Bal=A

9 CONTACTS



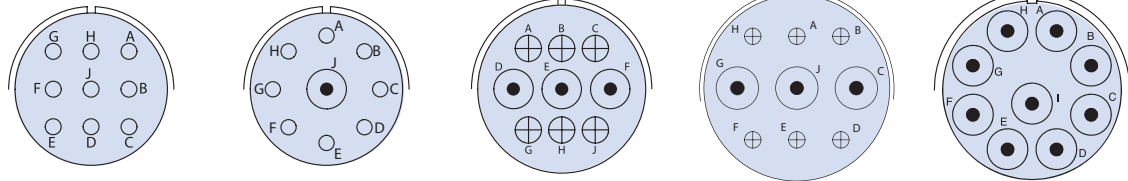
Arrangement	22-20	22-27	24-11	28-1
Contact Size	16	1/8, 8/16	3/8, 6/12	3/8, 6/12
Service Rating	A	J=D; Bal=A	A	A,J, E=D; Bal=A

**CONTACT
LEGEND**



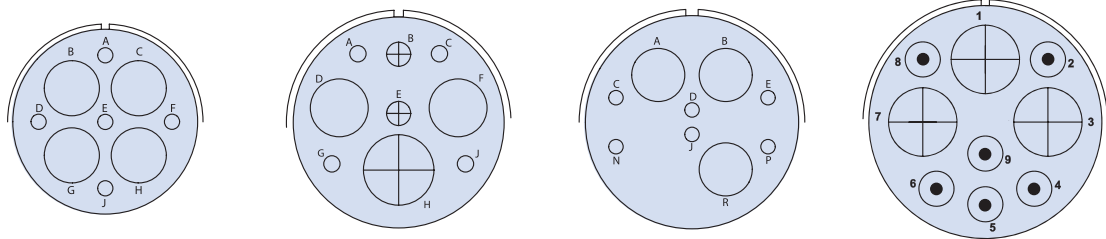
for Super ITS-MB Seacrow, Super ITS-RG Radgrip,
and Super ITS-NG Nuclear-Grade Connectors

9 CONTACTS



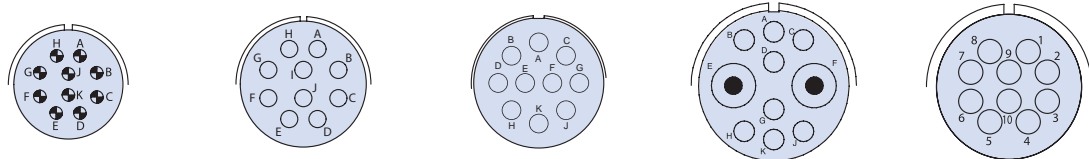
Arrangement	22-20	22-27	24-11	28-1	28-84
Contact Size	16	1/8, 8/16	3/8, 6/12	3/8, 6/12	8
Service Rating	A	J=D; Bal=A	A	A,J, E=D; Bal=A	A

9 CONTACTS



Arrangement	28-09	32-3	32-689	40-A9
Contact Size	4/4, 5/16	1/0, 2/4, 2/12, 4/16	3/4, 6/16	6/8, 3/0
Service Rating	A	D	A	A

10 CONTACTS



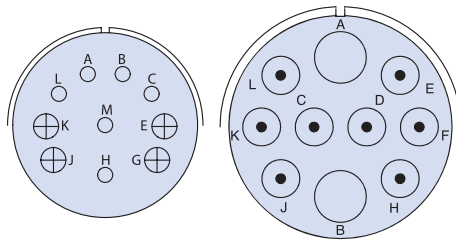
Arrangement	16-A10*	18-1	18-19	22-82	22-A10
Contact Size	18	16		8/16, 2/8	
Service Rating	I	B,C,F,G=A; Bal=I	A	A	A

CONTACT LEGEND



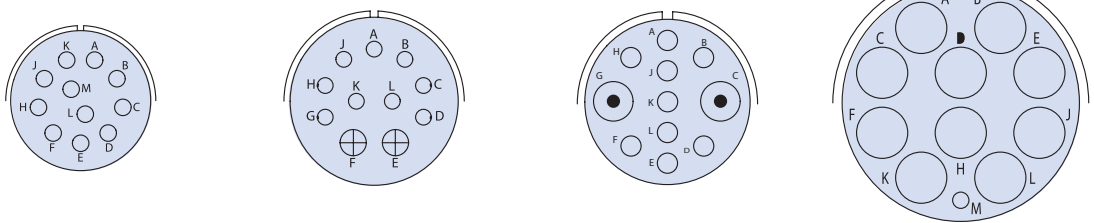
for Super ITS-MB Seacrow, Super ITS-RG Radgrip,
and Super ITS-NG Nuclear-Grade Connectors

10 CONTACTS



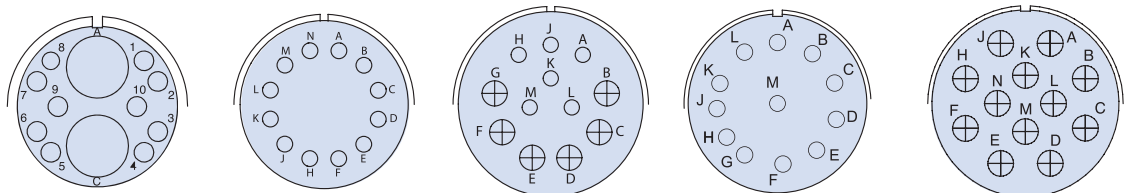
Arrangement	28-19	36-A10
Contact Size	4/12, 6/16	2/4, 8/8
Service Rating	A, B=D; K, M=B; Bal=A	A

11 CONTACTS



Arrangement	20-33	24-20	24-A11	40-67
Contact Size	16	2/12, 9/16	2/8, 9/16	10/4, 1/16
Service Rating	A	D	A	A

12 CONTACTS



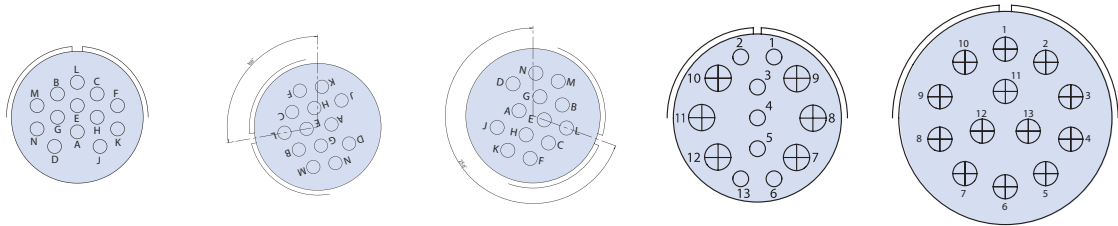
Arrangement	24-A12	24-19	28-9	28-18	28-51
Contact Size	2/4, 10/16	16	6/12, 6/16	16	12
Service Rating	A	A	D	A, B=A; G,H,J,K,L=D; M=C; Bal=I	D

CONTACT LEGEND



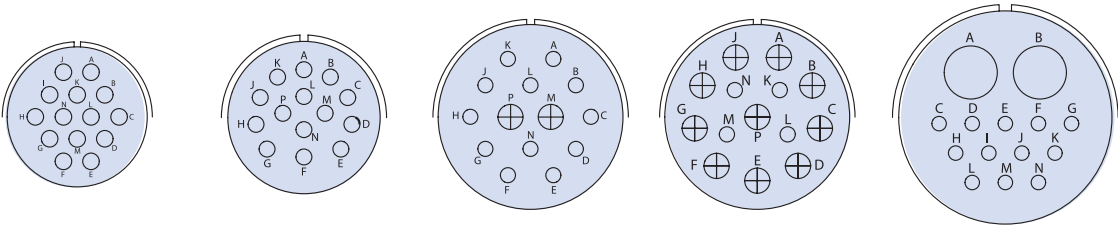
for Super ITS-MB Seacrow, Super ITS-RG Radgrip,
and Super ITS-NG Nuclear-Grade Connectors

13 CONTACTS



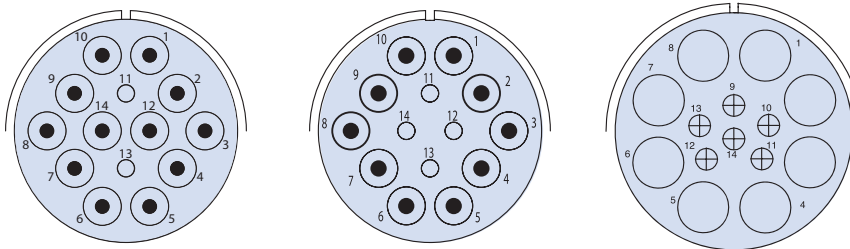
Arrangement	20-11	20-25(20-11 x 100°)	20-30 (20-11 x 250°)	24-013	32-013
Contact Size	16	16	13/16	6/12, 7/16	12
Service Rating	I	I	I	A	D

14 CONTACTS



Arrangement	20-27	22-19	28-2	28-20	32-9
Contact Size			2/12, 12/16	10/12, 4/16	2/4, 12/16
Service Rating	A	A	D	A	A

14 CONTACTS

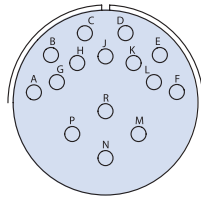


Arrangement	36-B78	36-D78	40-A14
Contact Size	12/8, 2/16	10/8, 4/16	6/12, 8/4
Service Rating	D	D	A

CONTACT LEGEND	20	18	16	12	80	4	4/0
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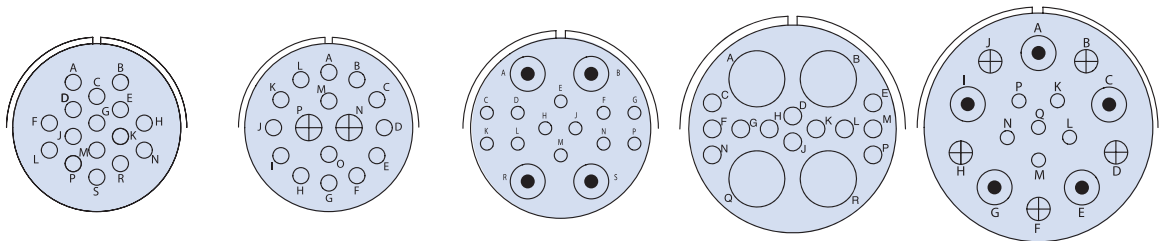
for Super ITS-MB Seacrow, Super ITS-RG Radgrip,
and Super ITS-NG Nuclear-Grade Connectors

15 CONTACTS



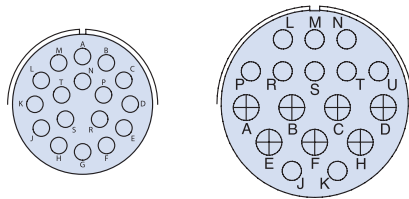
Arrangement	28-17
Contact Size	16
Service Rating	M,N,P=D; R=B; Bal=A

16 CONTACTS



Arrangement	24-5	24-7	28-124	32-68	36-14
Contact Size	16	2/12,14/16	12/16, 4/8	4/4, 12/16	5/8, 5/12, 6/16
Service Rating	A	A	A	A	D

17 CONTACTS



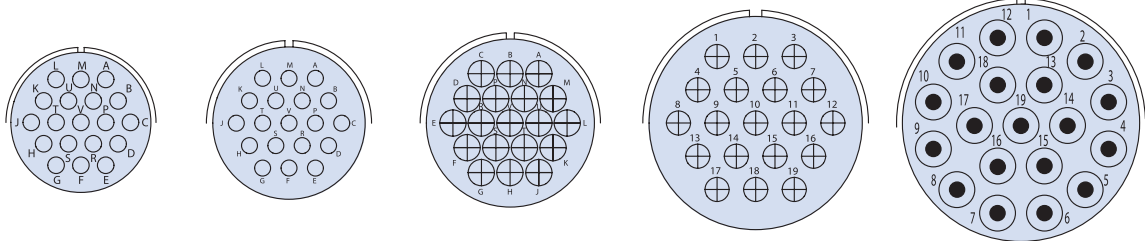
Arrangement	20-2-9	28-59
Contact Size	16	7/12, 10/16
Service Rating	A	A

CONTACT LEGEND



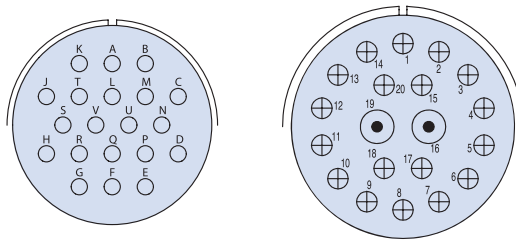
for Super ITS-MB Seacrow, Super ITS-RG Radgrip,
and Super ITS-NG Nuclear-Grade Connectors

19 CONTACTS



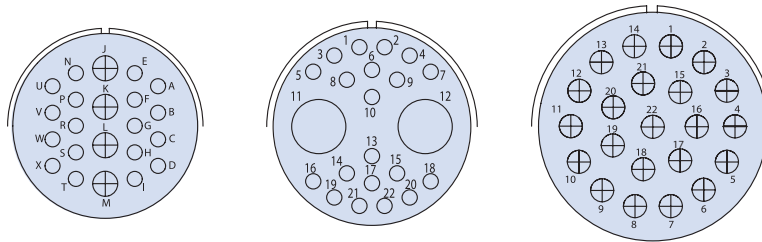
Arrangement	20-A48	22-14	24-67	32-76	40-B19
Contact Size	16	16	12	12	8
Service Rating	I	A	A	A	A

20 CONTACTS



Arrangement	28-16	40-A20
Contact Size	16	2/8, 18/12
Service Rating	A	D

22 CONTACTS



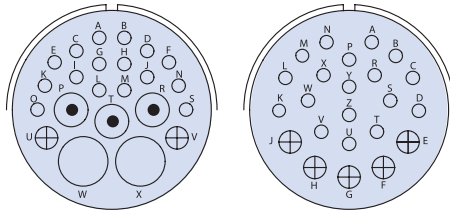
Arrangement	28-11	32-B22	36-22
Contact Size	4/12, 18/16	2/4, 20/16	12
Service Rating	A	A	D

CONTACT LEGEND



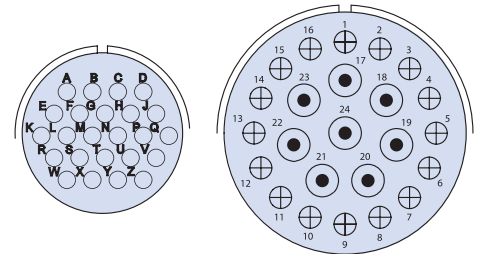
for Super ITS-MB Seacrow, Super ITS-RG Radgrip,
and Super ITS-NG Nuclear-Grade Connectors

22 CONTACTS



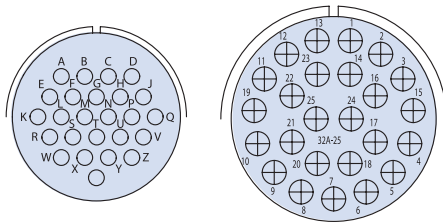
Arrangement	32-6	32-13
Contact Size	2/4, 3/8, 2/12, 16/16	5/12, 18/16
Service Rating	A	D

24 CONTACTS



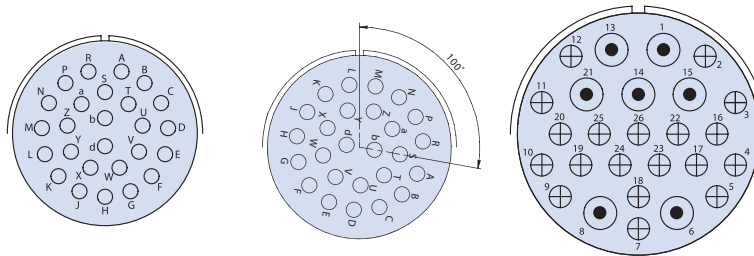
Arrangement	24-28	40-A24
Contact Size	16	8/8, 16/12
Service Rating	I	D

25 CONTACTS



Arrangement	24-A25	32-A25
Contact Size	16	12
Service Rating	A	A

26 CONTACTS

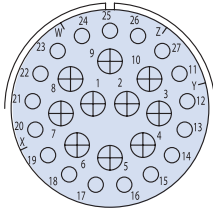


Arrangement	28-12	28-13 (28-12 x 100°)	40-26
Contact Size	16	16	7/8, 19/12
Service Rating	A	A	A

CONTACT LEGEND

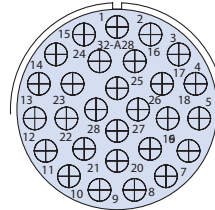
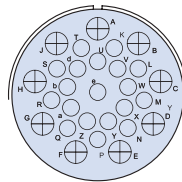
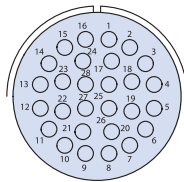


27 CONTACTS



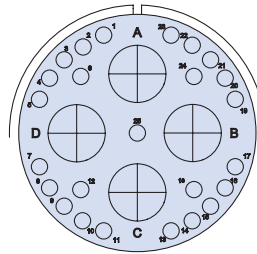
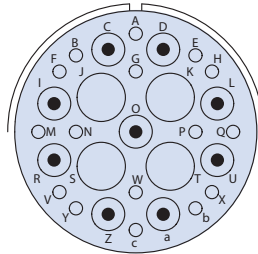
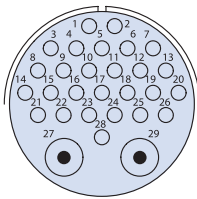
Arrangement	32-A27
Contact Size	10/12, 17/16
Service Rating	

28 CONTACTS



Arrangement	24-A28	28/-A63	32-A28
Contact Size	16	9/12, 19/16	12
Service Rating	I	I	A

29 CONTACTS



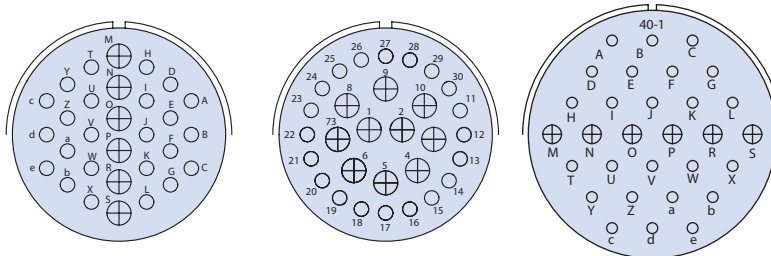
Arrangement	28-A29	40-10	40-B25
Contact Size	2/8, 27/16	4/4, 9/8, 16/16	25/16, 4/0
Service Rating	A	A	A

CONTACT LEGEND



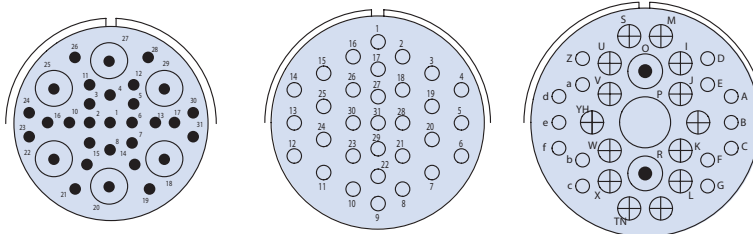
for Super ITS-MB Seacrow, Super ITS-RG Radgrip,
and Super ITS-NG Nuclear-Grade Connectors

30 CONTACTS



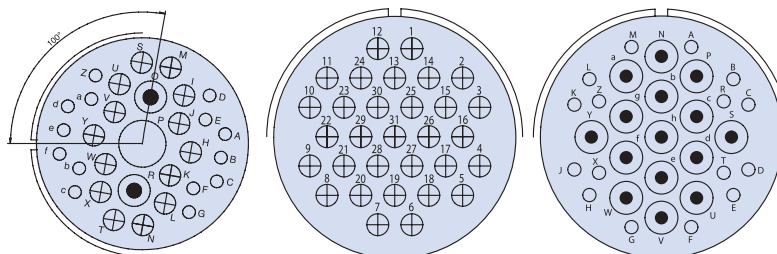
Arrangement	32-8	32-A30	40-1
Contact Size	6/12, 24/16	10/12, 20/16	6/12, 24/16
Service Rating	A	A	D

31 CONTACTS



Arrangement	28-A31*	32-31	36-9
Contact Size	6/8, 25/20	16	1/4, 2//, 14/12, 14/16
Service Rating	A	A	A

35 CONTACTS

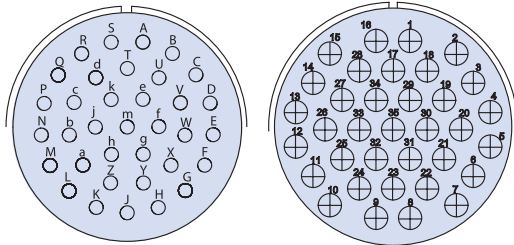


Arrangement	28/-15	28-A35	32-7
Contact Size	16	16	7/12, 28/16
Service Rating	A	A	A,B,H,J = I; Bal = A

CONTACT LEGEND

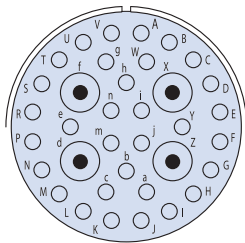


35 CONTACTS



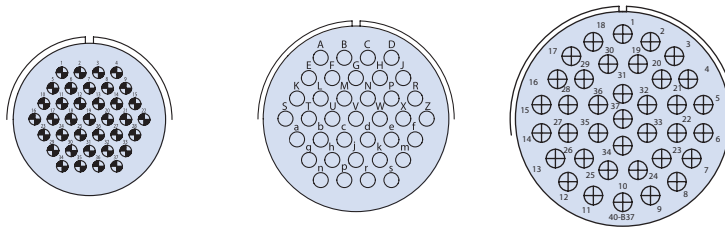
Arrangement	36-15	40-35
Contact Size	16	12
Service Rating	M = d; Bal = A	D

36 CONTACTS



Arrangement	36-35
Contact Size	4/8, 32/16
Service Rating	A

37 CONTACTS

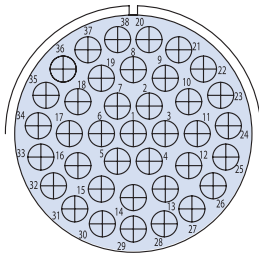


Arrangement	22-A37*	28-21	40-B37
Contact Size	18	16	12
Service Rating	A	A	A

CONTACT LEGEND

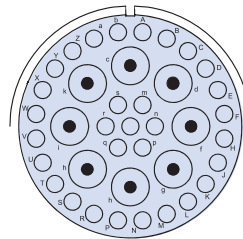


38 CONTACTS



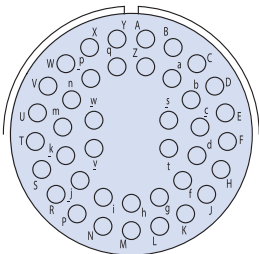
Arrangement	40-A38
Contact Size	12
Service Rating	A

39 CONTACTS



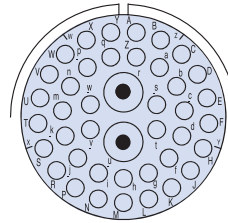
Arrangement	36-54 = 36-B39
Contact Size	8/8, 31/16
Service Rating	A

40 CONTACTS



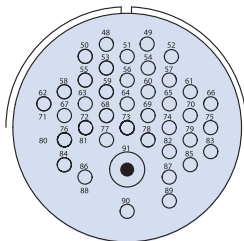
Arrangement	32-A40
Contact Size	16
Service Rating	A

42 CONTACTS



Arrangement	32-59
Contact Size	2/8, 40/16
Service Rating	A

44 CONTACTS



Arrangement	36-74
Contact Size	1/8, 43/16
Service Rating	A

CONTACT LEGEND



20



18



16



12



80

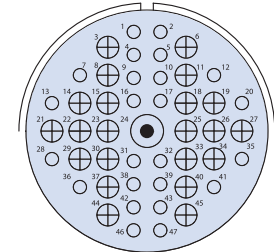
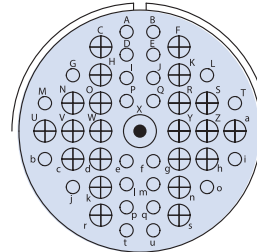
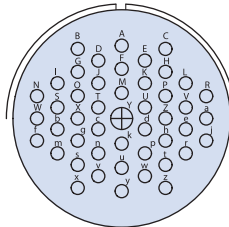
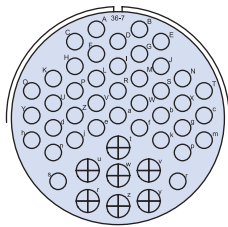


4



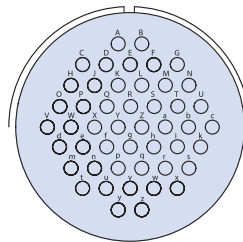
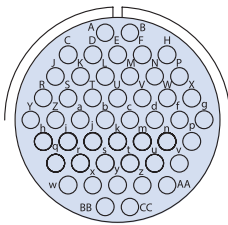
4/0

47 CONTACTS

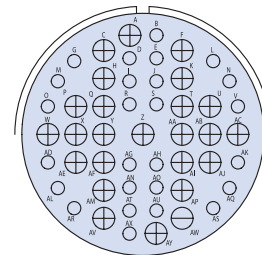


Arrangement	36-7	36-8	40-9	40-47
Contact Size	7/12, 40/16	1/12, 46/16	8, 22/12, 24/16	16 1/8, 22/12, 24/16
Service Rating	A	A	A	A

48 CONTACTS

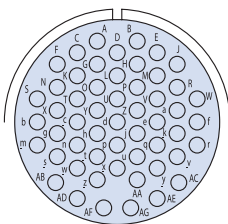
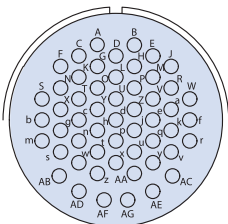


51 CONTACTS

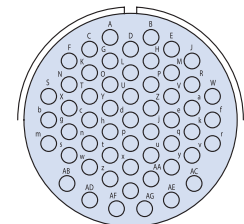
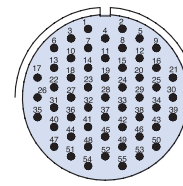


Arrangement	32-48	36-10	Arrangement	40-951
Contact Size	16	16	Contact Size	25/12, 26/16
Service Rating	I	A	Service Rating	A

54 CONTACTS



55 CONTACTS



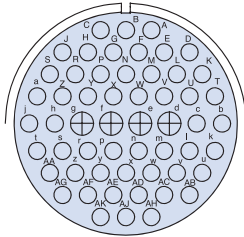
Arrangement	32-22	32-88	Arrangement	24-A55*	32-A55
Contact Size	16	16	Contact Size	20	16
Service Rating	A	A	Service Rating	I	A

CONTACT LEGEND



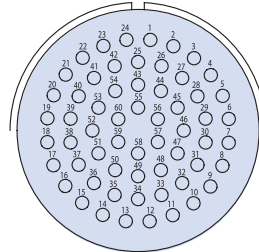
for Super ITS-MB Seacrow, Super ITS-RG Radgrip,
and Super ITS-NG Nuclear-Grade Connectors

56 CONTACTS



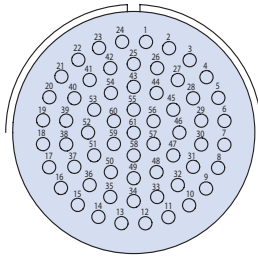
Arrangement	36-66
Contact Size	4/12, 52/16
Service Rating	A

60 CONTACTS



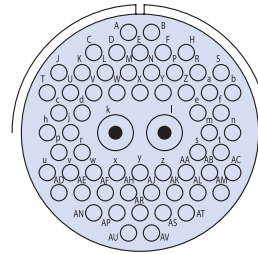
Arrangement	40-53	40-62
Contact Size	16	16
Service Rating	A	A

61 CONTACTS



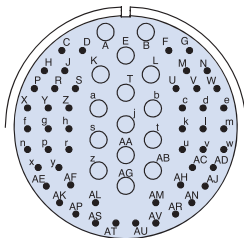
Arrangement	40-63
Contact Size	16
Service Rating	A

62 CONTACTS



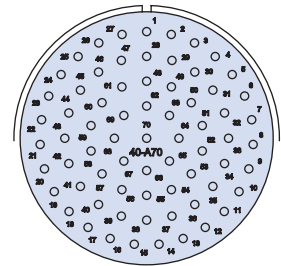
Arrangement	40-A62
Contact Size	2/8, 60/16
Service Rating	A

65 CONTACTS



Arrangement	36-A99*	40-A65
Contact Size	15/16, 50/20	16
Service Rating	A	A

70 CONTACTS



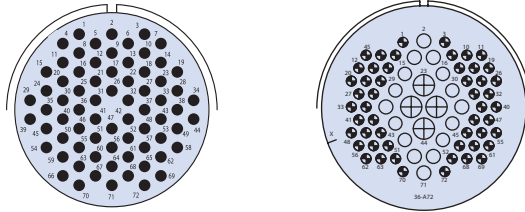
Arrangement	40-A70
Contact Size	16
Service Rating	A

CONTACT LEGEND



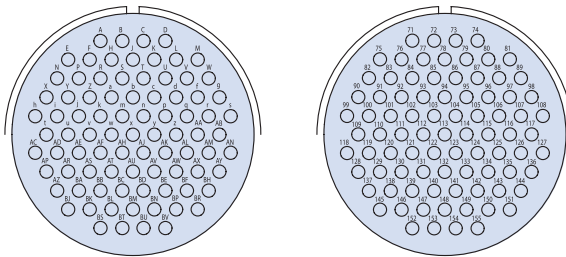
for Super ITS-MB Seacrow, Super ITS-RG Radgrig,
and Super ITS-NG Nuclear-Grade Connectors

72 CONTACTS



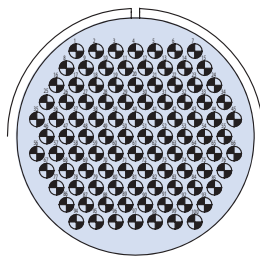
Arrangement	28-72*	36-A72*
Contact Size	20	4/12, 16/16, 52/18
Service Rating	I	I

85 CONTACTS



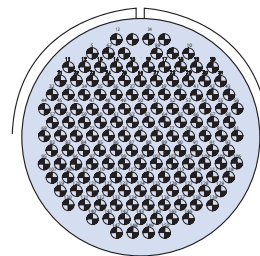
Arrangement	40-56	40-A56
Contact Size	16	16
Service Rating	A	A

100 CONTACTS



Arrangement	40-100
Contact Size	18
Service Rating	A

150 CONTACTS



Arrangement	40-150*
Contact Size	18
Service Rating	I

CONTACT LEGEND

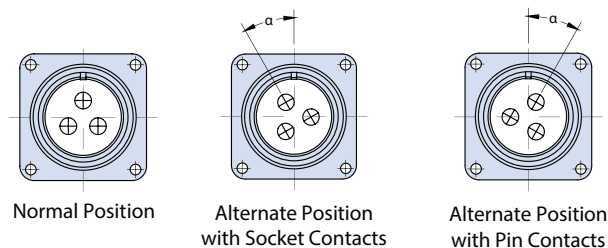


Contact Layout	A ±2™			
	W	X	Y	Z
10SL-3				
10SL-4				
14S-1	90	180	270	
14S-2		120	240	
14S-5		110		
14S-6	90			
14S-7	90	180	270	
14S-9	70	145	215	290
14S-07				
16S-1	80			280
16S-4	35	110	250	325
16S-5	70	145	215	290
16S-8		170	265	
16-2				
16-7	80	110	250	280
16-9	35	110	250	325
16-10	90	180	270	
16-11	35	110	250	325
16-12				
16-A10	35	112	235	315
18-1	70	145	215	290
18-3	35	110	250	325
18-4	35	110	250	325
18-5	80	110	250	280
18-6				
18-06	180			
18-7				
18-8	70			290
18-9	80	110	250	280
18-10		120	240	
18-10S MT				
18-11		170	265	
18-12	80			280
18-13	80	110	250	280
18-16				
18-19		120	240	

Contact Layout	A ±2™			
	W	X	Y	Z
18-20	90	180	270	
18-22	70	145	215	290
18-29	90	180	270	
18-30				
20-2				
20-3	70	145	215	290
20-4	45	110	250	
20-6	70	145	215	290
20-7	80	110	250	280
20-8	80	110	250	280
20-9	80	110	250	280
20-11				
20-14	80	110	250	280
20-15	80			280
20-16	80	110	250	280
20-17	90	180	270	
20-18	35	110	250	325
20-19	90	180	270	
20-21	35	110	250	325
20-22	80	110	250	280
20-23	35	110	250	325
20-24	35	110	250	325
20-A24	55	125	200	340
20-25				
20-27	35	110	250	325
20-29	80			280
20-30				
20-33				280
20-A8				
20-A9		110	250	
20-A48		80	280	
20-B8	80	110	250	280
22-1	35	110	250	325
22-2	70	145	215	290
22-4	35	110	250	325
22-5	35	110	250	325
22-7				
22-9	70	145	215	290
22-10	35	110	250	325
22-11	35	110	250	325
22-12	80	110	250	280
22-14	80	110	250	280

Contact Layout	A ±2™			
	W	X	Y	Z
22-15	80	110	250	280
22-17	80	110	250	280
22-18	80	110	250	280
22-19	80	110	250	280
22-20	35	110	250	325
22-21	80	110	250	280
22-22		110	250	
22-23	35		250	
22-27	80		250	280
22-28	80			280
22-34	80	110	250	280
22-82	80	110	250	280
22-A10		120	240	
22-A37	80	112	250	280
22-22S MT				
24-2	80			280
24-3	80	110	250	280
24-4	80	110	250	280
24-5	80	110	250	280
24-06	40			320
24-6	80	110	250	280
24-07	80			280
24-7	80	110	250	280
24-9	35	110	250	325
24-10	80			280
24-11	35	110	250	325
24-12	80	110	250	280
24-013				
24-19				
24-20	80	110	250	280
24-22	45	110	250	
24-27	80			280
24-28	80	110	250	280
24-67	80			335
24-A1				
24-A8				
24-A11	35	110	250	325
24-A12				
24-A25	80	110	250	280
24-A28	65	146	235	
24-A55	80	110	250	280
24-G5	70	110	240	270
28-1	80	110	250	280
28-2	35	110	250	325

Insert Rotation (front view)

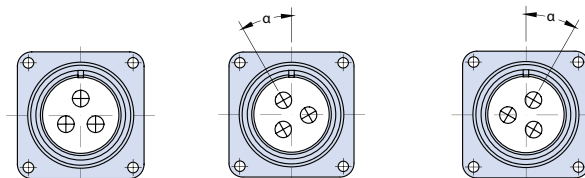


Contact Layout	A ±2™			
	W	X	Y	Z
28-3	70	145	215	290
28-6	70	145	215	290
28-09	110	250	260	280
28-9	80	110	250	280
28-10	80	110	250	280
28-11	80	110	250	280
28-12	90	180	270	
28-13				
28-15	80	110	250	280
28-16	80	110	250	280
28-17	80	110	250	280
28-18	70	145	215	290
28-19	80	110	250	280
28-20	80	110	250	280
28-21	80	110	250	280
28-22	70	145	215	290
28-51	80	135	190	
28-59	35	110	250	325
28-70	80			280
28-72	72	144	216	288
28-84	45	157	90	135
28-124	80	110	250	280
28-A29	80	110	250	280
28-A31	35		260	310
28-A35	80	110	250	280
28-A63		100	260	
28-B1				
28-B2				
32-1	80	110	250	280
32-2	70	145	215	290
32-3	80	110	250	280
32-5	35	110	250	325
32-6	80	110	250	280
32-7	80	125	235	280
32-8	80	125	235	280
32-9	80	110	250	280
32-013	65	130	230	295
32-13	80	110	250	280
32-15	35	110	250	280
32-17	45	110	250	
32-22	80	110	250	280
32-31	80	125	215	280
32-59	36	108	252	324
32-68	65	135	225	275

Contact Layout	A ±2™			
	W	X	Y	Z
32-689				
32-A5 GM				
32-76	80	110	250	280
32-79				
32-88	80	110	250	280
32-A1				
32-A3	22	44	76	98
32-A8	35	122		315
32-A25	60	120		
32-A27	30	115	285	335
32-A28				
32-A30				
32-A40	35	130		
32-A48	80	125	235	
32-A55	80	110	250	280
32-B22	35	110	250	325
36-01				
36-3	70	145	215	290
36-4	70	145	215	290
36-5		120	240	
36-6	35	110	250	325
36-7	80	110	250	280
36-8	80	110	250	280
36-9	80	125	235	280
36-10	80	125	235	280
36-14	90	180	270	
36-15	60	125	245	305
36-18				
36-22	80	110	250	280
36-35				
36-54 = 36-B39	67			
36-66	110	250	260	280
36-74				
36-77	45	90		
36-A7				
36-A10	45	110	250	315
36-A35				
36-A51	45	135	225	315
36-A72		110		
36-A99	30	135		
36-B61				
36-B78	35	106	254	325

Contact Layout	A ±2™			
	W	X	Y	Z
36-B90				
36-D78	35	106	254	325
40-1	65	130	235	300
40-9	65	125	225	310
40-10	65	125	225	310
40-26	80	110	250	280
40-31	80	110	250	280
40-35	70	130	230	290
40-47	65	125	225	310
40-53	80	110	250	280
40-56	72	144	216	288
40-62	30	130	220	290
40-63	80			280
40-67	70	110	230	280
40-100	30	105	230	315
40-150				
40-951	90	105		
40-A3	70	145	215	290
40-A4	50	120	240	325
40-A5	33			270
40-A6	35	110	250	280
40-A5GM	33			270
40-A8	35	110	250	325
40-A9				
40-A10	65			
40-A14				
40-A20	80	110	250	280
40-A24				
40-A38	37			
40-A51				
40-A55				
40-A56	72	144	216	288
40-A62	80	130	230	280
40-A65	70	145	215	285
40-A70	80	110	250	280
40-B4	45	110	215	300
40-B19	35	105	255	325
40-B25				
40-B37				
40-D4				
40-G4				

Insert Rotation (front view)

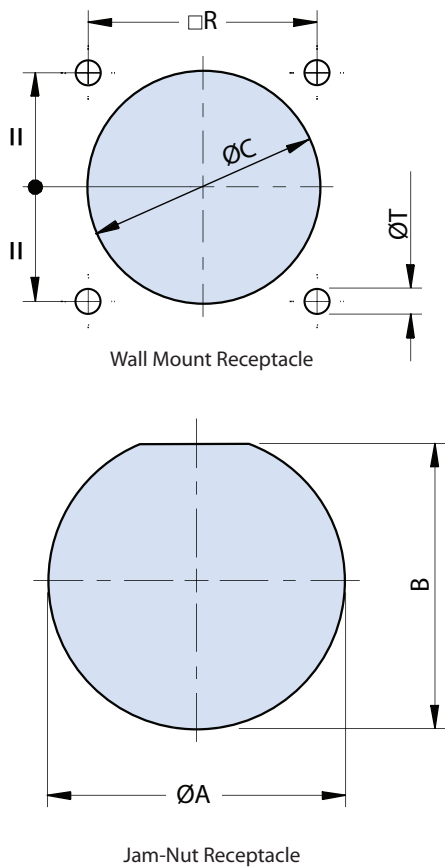


Normal Position

Alternate Position
with Socket Contacts

Alternate Position
with Pin Contacts

PANEL CUTOUT DIMENSIONS



Panel Cutout for Type 00, 02, 26 Connectors (Front Panel Mounting)

Shell Size	10SL	14S	16S, 16	18	20	22	24	28	32	36	40
ØC	17 (0.67)	20 (0.79)	23 (0.91)	26.5 (1.04)	30 (1.18)	33 (1.30)	36 (1.42)	42 (1.65)	48.50 (1.91)	55 (2.17)	61 (2.40)
R ±0.1	18.2 (0.72)	23.0 (0.91)	24.6 (0.97)	27 (1.06)	29.4 (1.16)	31.8 (1.25)	34.9 (1.37)	39.7 (1.56)	44.5 (1.75)	49.2 (1.94)	55.5 (2.19)
ØT	3.4 (0.13)	3.4 (0.13)	3.4 (0.13)	3.4 (0.13)	3.4 (0.13)	3.4 (0.13)	3.9 (0.15)	3.9 (0.15)	4.5 (0.18)	4.5 (0.18)	4.5 (0.18)

Panel Cutout for Type 03, 030, 038, 02PP Connectors (Rear Panel Mounting)

Shell Size	10SL	14S	16S, 16	18	20	22	24	28	32	36	40
ØC	19.1 (0.75)	25.5 (1.00)	28.3 (1.11)	31.7 (1.25)	35 (1.38)	38.3 (1.51)	41.8 (1.65)	47.6 (1.87)	54.3 (2.14)	60.5 (2.38)	66.4 (2.61)
R ±0.1	18.2 (0.72)	23.0 (0.91)	24.6 (0.97)	27 (1.06)	29.4 (1.16)	31.8 (1.25)	34.9 (1.37)	39.7 (1.56)	44.5 (1.75)	49.2 (1.94)	55.5 (2.19)
ØT	4.5 (0.18)	4.5 (0.18)	4.5 (0.18)	4.5 (0.18)	4.5 (0.18)	4.5 (0.18)	4.5 (0.18)	5.5 (0.22)	5.5 (0.22)	5.5 (0.22)	5.5 (0.22)

Panel Cutout for Type 07, 070, 078 Connectors (Jam-Nut Receptacles)

Shell Size	10SL	14S	16S, 16	18	20	22	24	28	32	36	40
ØA + 0.25	22.40 (0.88)	28.75 (1.13)	31.95 (1.26)	35.10 (1.38)	38.30 (1.51)	41.45 (1.63)	44.65 (1.76)	51.00 (2.01)	57.35 (2.26)	63.70 (2.51)	70.05 (2.76)
ØB - 0.35	21.00 (0.83)	27.40 (1.08)	30.95 (1.22)	33.75 (1.33)	36.85 (1.45)	40.05 (1.58)	43.35 (1.71)	49.55 (1.95)	55.95 (2.20)	62.35 (2.45)	68.55 (2.70)

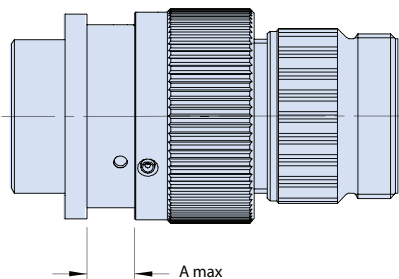
Panel Mount Recommended Torque (Nm)

Screw Size	Shell Material		
	Alum.	Marine Bronze	SST
M4	1.1	1.6	2
M5	2.1	2.9	3.7

Jam Nut Torque for Type 07, 070, 078

Shell Size	10SL	14S	16S, 16	18, 20	22	24, 28	32	36	40
Torque [Nm]	18	28	30	35	40	45	50	55	60

MAXIMUM PANEL THICKNESS



Panel Thickness for Type 00, 02 Rear Panel Mount Connectors

Shell Size	10SL	14S	16S, 16	18	20	22	24	28	32	36	40
A Max	3.7 (0.15)	3.7 (0.15)	3.7 (0.15)	3.7 (0.15)	3.7 (0.15)	3.7 (0.15)	5.25 (0.21)	5.25 (0.21)	6.1 (0.24)	6.1 (0.24)	6 (0.24)

Panel Thickness for Type 02PP, 03, 030 and 038 RPM Wall Mount Connectors (Thrd)

Shell Size	10SL	14S	16S, 16	18	20	22	24	28	32	36	40
A Max	7.2 (0.28)	7.2 (0.28)	7.2 (0.28)	7.5 (0.30)	7.5 (0.30)	7.5 (0.30)	7.5 (0.30)	7.5 (0.30)	7.5 (0.30)	7.5 (0.30)	7.5 (0.30)

Panel Thickness for Type 02PP, 03, 030 and 038 Connectors

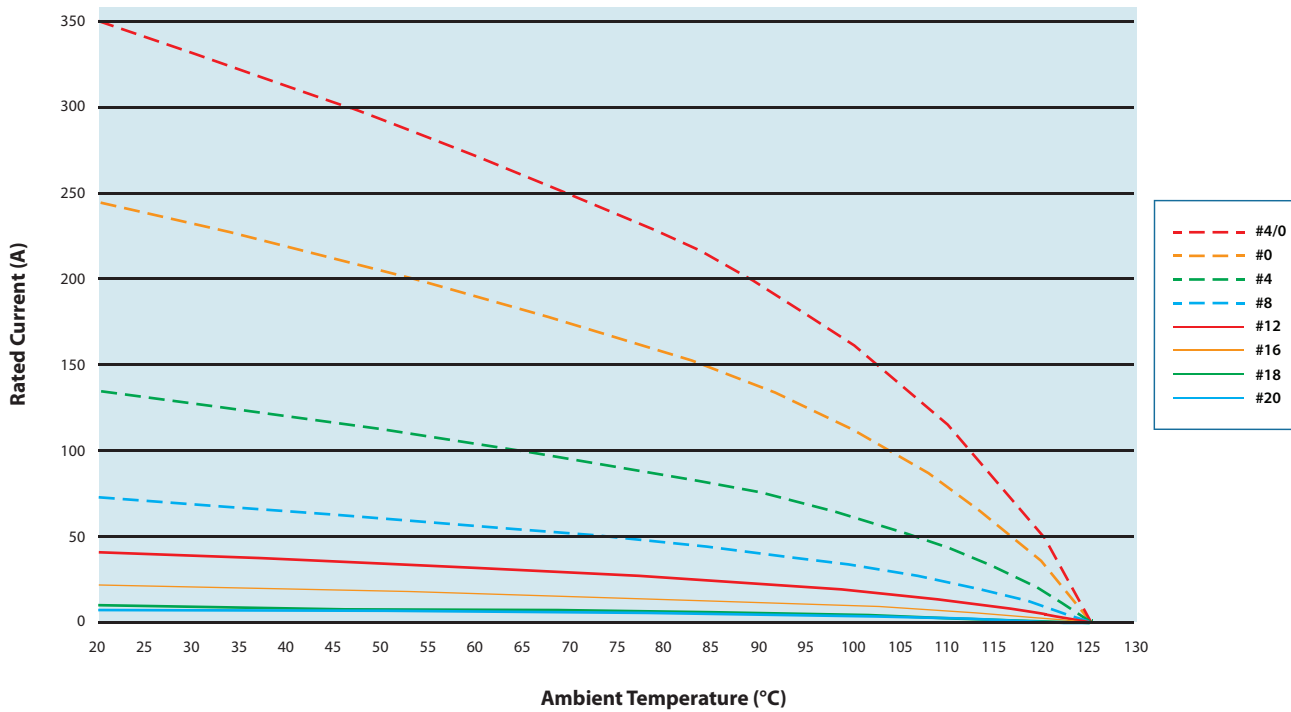
Shell Size	10SL	14S	16S, 16	18	20	22	24	28	32	36	40
A Max	2.5 (0.10)	2.5 (0.10)	2.5 (0.10)	3.2 (0.13)	3.2 (0.13)	3.2 (0.13)	3.2 (0.13)	3.2 (0.13)	3.2 (0.13)	3.2 (0.13)	3.2 (0.13)

Contact Specifications*				
Contact Size	Rated Current at 20° C	Rated Current at 80° C	Max. Contact resist.	Wire size
20	7.5 A	7.5 A	12.0 mW	20-26 AWG
18	10A	7.5 A	12.0 mW	18-26 AWG
16	22 A	13 A	6.0 mW	16-22 AWG
12	41 A	23 A	3.0 mW	12-14 AWG
8	73 A	46 A	1.0 mW	8-10 AWG
4	135 A	80 A	0.5 mW	4-6 AWG
0	245 A	150 A	0.3 mW	0-2 AWG
4/0	350 A	225 A	0.2 mW	4/0 AWG

Service Rating*			
Service Rating Class	Operating Voltage VDC	Operating Voltage VAC RMS	Test Voltage VAC RMS
Instrument	250 V	200 V	1000 V
A	700 V	500 V	2000 V
D	1250 V	900 V	2800 V
E	1750 V	1250 V	3500 V
B	2450 V	1750 V	4500 V
C	4200 V	3000 V	7000 V

*Minimum Insulating resistance: $\geq 5 \times 10^3$ MΩ

*Copper alloy / silver plated (standard) or gold plated (upon request)



INSULATING PARTS

High insulation synthetic rubber resistant to oils and high temperatures (-55°C to +125°C) in accordance with MIL-R-3065. All connectors are also available in fire resistant and halogen free materials.

PIN CRIMP CONTACTS - MANUAL AND PNEUMATIC TOOLS

Manual And Pneumatic Tools Part Numbers, Size & Dimensions							
Part Number	Contact Size	Wire Size		Manual Crimp Tool		Pneumatic Tool Type "A"	
		mm ²	AWG	Manual Tool	Turret	Pneumatic Tool	Turret
10-375-20	20	0.15-0.6	26-20	M.105001	M.105026	M.105003	M.105026
10-40579	18	0.15-0.6	26-20	M.105001	M.105025	M.105003	M.105025
10-40553	16S	1-1.5	18-16	M.105007	M.105009	M.105002	M.105009
10-40553-12	16S	0.6	20	M.105007	M.105009	M.105002	M.105009
10-40553-13	16S	0.15-0.6	26-20	M.105001	M.105009	M.105003	M.105009
10-40553-15	16S	0.75-1.0	18	M.105007	M.105009	M.105002	M.105009
10-40553-20	16S	1-2	14	M.105007	M.105009	M.105002	M.105009
10-40553-26	16S	2.5-3.0	12	M.105007	M.105009	M.105002	M.105009
10-40557	16	1-1.5	18-16	M.105007	M.105009	M.105002	M.105012
10-40557L	16	1-1.5	18-16	M.105007	M.105012	M.105002	M.105009
10-40557-08	16	0.15-0.2	26-24	M.105001	M.105009	M.105003	M.105009
10-40557-12	16	0.6	20	M.105007	M.105009	M.105003	M.105009
10-40557-13	16	0.15-0.6	26-20	M.105001	M.105009	M.105003	M.105009
10-40557-15	16	0.75-1.0	18	M.105007	M.105009	M.105002	M.105009
10-40557-20	16	1-2	14	M.105007	M.105009	M.105002	M.105009
10-40557-22	16	2.5	/	M.105007	M.105009	M.105002	M.105009
10-40557-22L	16	2.5	/	M.105007	M.105012	M.105002	M.105012
10-40557-26	16	2.5-3.0	12	M.105007	M.105009	M.105002	M.105009
10-40557-32	16	/	32-28	M.105007	M.105009	M.105003	M.105009
10-40561	12	2.5-3.0	12	M.105007	M.105009	M.105002	M.105009
10-40561-12	12	0.6	20	M.105007	M.105009	M.105003	M.105009
10-40561-15	12	0.75-1.0	18	M.105007	M.105009	M.105002	M.105009
10-40561-177	12	1.5	18-16	M.105007	M.105009	M.105002	M.105009
10-40561-20	12	2	14	M.105007	M.105009	M.105002	M.105009
10-40561-22	12	2.5	/	M.105007	M.105009	M.105002	M.105009
10-40561-30	12	4-5	/	M.105007	M.105009	M.105002	M.105009
10-40561-30M	12	4	/	M.105007	M.105009	M.105002	M.105009
10-40561-38	12	6	10	M.105007	M.105009	M.105002	M.105009

Please consult our sales department for other contacts or crimp tooling details.



Manual Crimp Tool



Turret for Manual Crimp Tool



Pneumatic Crimp Tool Type "A"



Turret for Pneumatic Crimp Tool Type "A"

PIN CRIMP CONTACTS - MANUAL AND PNEUMATIC TOOLS

Manual And Pneumatic Tools Part Numbers, Size & Dimensions										
Part Number	Contact Size	Wire Size		Manual Crimp Tool		Pneumatic Tool Type "B"			Oleodynamic Tool	
		Mm ²	Awg	Tool	Turret	Tool	Die	Locator	Tool	Die
10-40792	8	9	8	/	/	M.112000	M.112001	M.112309	M.112004	M.112005
10-40792-15	8	0.75-1.0	18	M.105028	M.104002	/	/	/	/	/
10-40792-18	8	1-2	18-14	M.105028	M.104002	/	/	/	/	/
10-40792-20	8	2	14	M.105028	M.104002	/	/	/	/	/
10-40792-26	8	2.5-3.0	12	M.105028	M.104002	/	/	/	/	/
10-40792-30	8	4-5	/	M.105028	M.104002	/	/	/	M.112004	M.112008
10-40792-38	8	6	10	/	/	M.112000	M.112001	M.112309-1	M.112004	M.112005
10-40792-50	8	10	/	/	/	M.112000	M.112001	M.112309-1	M.112004	M.112005
10-40792-58	8	13.2	6	/	/	M.112000	M.112001	M.112309-1	M.112004	M.112005
10-113474-4P	4	25	4	/	/	M.112000	M.112002	M.112311	M.112004	M.112006
10-113474-4P-22	4	2.5	/	/	/	/	/	/	M.112004	M.112009
10-113474-4P-25	Replaced by 10-113474-4P									
10-113474-4P-26	4	2.5-3.0	12	/	/	/	/	/	M.112004	M.112009
10-113474-4P-30	4	4-5	/	/	/	/	/	/	M.112004	M.112008
10-113474-4P-38	4	6	10	/	/	M.112000	M.112001	M.112311	M.112004	M.112005
10-113474-4P-50	4	10	/	/	/	M.112000	M.112001	M.112311	M.112004	M.112005
10-113474-4P-58	4	13.2	6	/	/	M.112000	M.112001	M.112311	M.112004	M.112005
10-113474-4P-62	4	16	/	/	/	M.112000	M.112002	M.112311	M.112004	M.112006
10-113474-1P	0	50-60	0	/	/	M.112000	M.112003	M.112313	M.112004	M.112010
10-113474-1P-107	0	50	/	/	/	M.112000	M.112003	M.112313	M.112004	M.112010
10-113474-1P-72	0	22-25	4	/	/				M.112004	M.112006
10-113474-1P-35	0	35	/	/	/	/	/	/	M.112004	M.112007
10-113474-1P-45	0	9	8	/	/				M.112004	M.112005
10-113474-1P-50	0	10	/	/	/				M.112004	M.112005
10-113474-1P-58	0	13.2	6	/	/				M.112004	M.112005
10-113474-1P-62	0	16	/	/	/				M.112004	M.112006
10-113474-0P	4/0	107	4/0	/	/	/	/	/	M.105013	M.112012
10-113474-0P-78	4/0	25	/	/	/	/	/	/	M.112004	M.112006
10-113474-0P-107	4/0	50	/	/	/	/	/	/	M.112004	M.112010
10-113474-0P-144	4/0	70	/	/	/	/	/	/	M.105013	M.105053

Please consult our sales department for other contacts or crimp tooling details.



Pneumatic Crimp Tool Type "B"



Die For Pneumatic Crimp Tool Type "B"



Locator for Pneumatic Crimp Tool Type "B"



Oleodynamic Crimp Tool



Die for Oleodynamic Crimp Tool

PIN CRIMP CONTACTS - INSERTION AND REMOVAL TOOLS

Insertion and Removal Tools Part Numbers and Dimensions					
Part Number	Contact Size	Wire Size		Insertion tool	Removal Tool
		mm ²	AWG		
10-375-20	20	0.15-0.6	26-20	M.117346	M.118251
10-40579	18	0.15-0.6	26-20	M.117346	M.118249
10-40553	16S	1-1.5	18-16	M.117083	M.118250
10-40553-12	16S	0.6	20	M.117083	M.118250
10-40553-13	16S	0.15-0.6	26-20	M.117346	M.118250
10-40553-15	16S	0.75-1.0	18	M.117083	M.118250
10-40553-20	16S	1-2	14	M.117083	M.118250
10-40553-26	16S	2.5-3.0	12	M.117082	M.118250
10-40557	16	1-1.5	18-16	M.117083	M.118250
10-40557L	16	1-1.5	18-16	M.117083	M.118250
10-40557-08	16	0.15-0.2	26-24	M.117346	M.118250
10-40557-12	16	0.6	20	M.117083	M.118250
10-40557-13	16	0.15-0.6	26-20	M.117346	M.118250
10-40557-15	16	0.75-1.0	18	M.117083	M.118250
10-40557-20	16	1-2	14	M.117083	M.118250
10-40557-22	16	2.5	/	M.117083	M.118250
10-40557-22L	16	2.5	/	M.117083	M.118250
10-40557-26	16	2.5-3.0	12	M.117083	M.118250
10-40557-32	16	/	32-28	M.117083	M.118250
10-40561	12	2.5-3.0	12	M.117082	M.118250
10-40561-12	12	0.6	20	M.117083	M.118250
10-40561-15	12	0.75-1.0	18	M.117083	M.118250
10-40561-177	12	1.5	18-16	M.117082	M.118250
10-40561-20	12	2	14	M.117082	M.118250
10-40561-22	12	2.5	/	M.117082	M.118250
10-40561-30	12	4-5	/	M.117082	M.118250
10-40561-30M	12	4	/	M.117082	M.118250
10-40561-38	12	6	10	M.117082	M.118250

Insertion and Removal Tools Part Numbers and Dimensions					
Part Number	Contact Size	Wire Size		Insertion tool	Removal Tool
		mm ²	AWG		
10-40792	8	9	8	M.117344	M.118260
10-40792-15	8	0.75-1.0	18	M.117082	M.118260
10-40792-18	8	1-2	18-14	M.117082	M.118260
10-40792-20	8	2	14	M.117082	M.118260
10-40792-26	8	2.5-3.0	12	M.117082	M.118260
10-40792-30	8	4-5	/	M.117082	M.118260
10-40792-38	8	6	10	M.117344	M.118260
10-40792-50	8	10	/	M.117344	M.118260
10-40792-58	8	13.2	6	M.117344	M.118260
10-113474-4P	4	25	4	M.117347	M.118270
10-113474-4P-22	4	2.5	/	M.117082	M.118270
10-113474-4P-26	4	2.5-3.0	12	M.117082	M.118270
10-113474-4P-30	4	4-5	/	M.117082	M.118270
10-113474-4P-38	4	6	10	M.117344	M.118270
10-113474-4P-50	4	10	/	M.117344	M.118270
10-113474-4P-58	4	13.2	6	M.117344	M.118270
10-113474-4P-62	4	16	/	M.117347	M.118270
10-113474-1P	0	50-60	0	M.117348	M.118280
10-113474-1P-107	0	50	/	M.117348	M.118280
10-113474-1P-72	0	22-25	4	M.117347	M.118280
10-113474-1P-35	0	35	/	M.117348	M.118280
10-113474-1P-45	0	9	8	M.117344	M.118280
10-113474-1P-50	0	10	/	M.117344	M.118280
10-113474-1P-58	0	13.2	6	M.117344	M.118280
10-113474-1P-62	0	16	/	M.117347	M.118280
10-113474-0P	4/0	107	4/0	/	/
10-113474-0P-78	4/0	25	/	/	/
10-113474-0P-107	4/0	50	/	/	/
10-113474-0P-144	4/0	70	/	/	/

SUPER ITS: APPENDIX - INSERT ARRANGEMENTS / ACCESSORIES



Insertion Tool



Removal Tool

Please consult our sales department for other contact options or crimp tool details.



SOCKET CRIMP CONTACTS - MANUAL AND PNEUMATIC TOOLS

SUPER ITS: APPENDIX - INSERT ARRANGEMENTS / ACCESSORIES

Manual And Pneumatic Tools Part Numbers, Size & Dimensions							
Part Number	Contact Size	Wire Size		Manual Crimp Tool		Pneumatic Tool Type "A"	
		mm ²	AWG	Manual Tool	Turret	Pneumatic Tool	Turret
10-40520LC	20	0.15-0.6	26-20	M.105001	M.105026	M.105003	M.105026
10-40588	18	0.15-0.6	26-20	M.105001	M.105025	M.105003	M.105025
10-40552	16S	1-1.5	18-16	M.105007	M.105009	M.105002	M.105009
10-40552-12	16S	0.6	20	M.105007	M.105009	M.105002	M.105009
10-40552-13	16S	0.15-0.6	26-20	M.105001	M.105009	M.105003	M.105009
10-40552-15	16S	0.75-1	18	M.105007	M.105009	M.105002	M.105009
10-40552-20	16S	1-2	14	M.105007	M.105009	M.105002	M.105009
10-40552-26	16S	2.5-3.0	12	M.105007	M.105009	M.105002	M.105009
10-40556	16	1-1.5	18-16	M.105007	M.105009	M.105002	M.105009
10-40556-08	16	0.15-0.2	26-24	M.105001	M.105009	M.105003	M.105009
10-40556-12	16	0.6	20	M.105007	M.105009	M.105003	M.105009
10-40556-13	16	0.15-0.6	26-20	M.105001	M.105009	M.105003	M.105009
10-40556-15	16	0.75-1	18	M.105007	M.105009	M.105002	M.105009
10-40556-20	16	1-2	14	M.105007	M.105009	M.105002	M.105009
10-40556-22	16	2.5	/	M.105007	M.105009	M.105002	M.105009
10-40556-26	16	2.5-3.0	12	M.105007	M.105009	M.105002	M.105009
10-40556-32	16	/	32-28	M.105007	M.105009	M.105003	M.105009
10-40560	12	2.5-3.0	12	M.105007	M.105009	M.105002	M.105009
10-40560-12	12	0.6	20	M.105007	M.105009	M.105003	M.105009
10-40560-15	12	0.75-1	18	M.105007	M.105009	M.105002	M.105009
10-40560-177	12	1.5	18-16	M.105007	M.105009	M.105002	M.105009
10-40560-20	12	2	14	M.105007	M.105009	M.105002	M.105009
10-40560-22	12	2.5	/	M.105007	M.105009	M.105002	M.105009
10-40560-30	12	4-5	/	M.105007	M.105009	M.105002	M.105009
10-40560-30M	12	4	/	M.105007	M.105009	M.105002	M.105009
10-40560-38	12	6	10	M.105007	M.105009	M.105002	M.105009

Please consult our sales department for other contacts or crimp tooling details.



Manual Crimp Tool



Turret for Manual Crimp Tool



Pneumatic Crimp Tool Type "A"



Turret for Pneumatic Crimp Tool Type "A"

SOCKET CRIMP CONTACTS - MANUAL AND PNEUMATIC TOOLS

Manual and Pneumatic Tools Part Numbers, Size & Dimensions										
Part Number	Contact Size	Wire Size		Manual Crimp Tool		Pneumatic Tool Type "B"			Oleodynamic Tool	
		mm	AWG	Tool	Turret	Tool	Die	Locator	Tool	Die
10-40793-1	8	9	8	/	/	M.112000	M.112001	M.112309	M.112004	M.112005
10-40793-1-15	8	0.75-1	18	M.105028	M.104002	/	/	/	/	/
10-40793-1-18	8	1-2	18-14	M.105028	M.104002	/	/	/	/	/
10-40793-1-20	8	2	14	M.105028	M.104002	/	/	/	/	/
10-40793-1-26	8	2.5-3.0	12	M.105028	M.104002	/	/	/	/	/
10-40793-1-30	8	4-5	/	M.105028	M.104002	/	/	/	M.112004	M.112008
10-40793-1-38	8	6	10	/	/	M.112000	M.112001	M.112309	M.112004	M.112005
10-40793-1-50	8	10	/	/	/	M.112000	M.112001	M.112309	M.112004	M.112005
10-10793-1-58	8	13.2	6	/	/	M.112000	M.112001	M.112309	M.112004	M.112005
10-113474-4S-1	4	25	4	/	/	M.112000	M.112002	M.112311	M.112004	M.112006
10-113474-4S-1-22	4	2.5	/	/	/	/	/	/	M.112004	M.112009
10-113474-4S-1-25	Replaced by 10-113474-4S-1									
10-113474-4S-1-26	4	2.5-3.0	12	/	/	/	/	/	M.112004	M.112009
10-113474-4S-1-30	4	4-5	/	/	/	/	/	/	M.112004	M.112008
10-113474-4S-1-38	4	6	10	/	/	M.112000	M.112001	M.112311	M.112004	M.112005
10-113474-4S-1-50	4	10	/	/	/	M.112000	M.112001	M.112311	M.112004	M.112005
10-113474-4S-1-58	4	13.2	6	/	/	M.112000	M.112001	M.112311	M.112004	M.112005
10-113474-4S-62	4	16	/	/	/	M.112000	M.112002	M.112311	M.112004	M.112006
10-113474-1S	0	50-60	0	/	/	M.112000	M.112003	M.112313	M.112004	M.112010
10-113474-1S-107	0	50	/	/	/	M.112000	M.112003	M.112313	M.112004	M.112010
10-113474-1S-72	0	22-25	4	/	/	M.112000	M.112002	M.112313	M.112004	M.112006
10-113474-1S-35	0	35	/	/	/	/	/	/	M.112004	M.112007
10-113474-1S-45	0	9	8	/	/	/	/	/	M.112004	M.112005
10-113474-1S-50	0	10	/	/	/	/	/	/	M.112004	M.112005
10-113474-1S-58	0	13.2	6	/	/	/	/	/	M.112004	M.112005
10-113474-1S-62	0	16	/	/	/	/	/	/	M.112004	M.112006
10-113474-0S	4/0	107	4/0	/	/	/	/	/	M.105013	M.112012
10-113474-0S-78	4/0	25	/	/	/	/	/	/	M.112004	M.112006
10-113474-0S-107	4/0	50	/	/	/	/	/	/	M.112004	M.112010
10-113474-0S-144	4/0	70	/	/	/	/	/	/	M.105013	M.105053

Please consult our sales department for other contacts or crimp tooling details.



Pneumatic Crimp Tool Type "B"



Die For Pneumatic Crimp Tool Type "B"



Locator for Pneumatic Crimp Tool Type "B"



Oleodynamic Crimp Tool



Die for Oleodynamic Crimp Tool

PIN CRIMP CONTACT - INSERTION AND REMOVAL TOOLS

Insertion and Removal Tools					
Part Number	Contact Size	Wire Size		Insertion Tool	Removal Tool
10-375-20	20	0.15-0.6	26-20	M.117346	M.118251
10-40579	18	0.15-0.6	26-20	M.117346	M.118249
10-40553	16S	1-1.5	18-16	M.117083	M.118250
10-40553-12	16S	0.6	20	M.117083	M.118250
10-40553-13	16S	0.15-0.6	26-20	M.117346	M.118250
10-40553-15	16S	0.75-1.0	18	M.117083	M.118250
10-40553-20	16S	1-2	14	M.117083	M.118250
10-40553-26	16S	2.5-3.0	12	M.117082	M.118250
10-40557	16	1-1.5	18-16	M.117083	M.118250
10-40557L	16	1-1.5	18-16	M.117083	M.118250
10-40557-08	16	0.15-0.2	26-24	M.117346	M.118250
10-40557-12	16	0.6	20	M.117083	M.118250
10-40557-13	16	0.15-0.6	26-20	M.117346	M.118250
10-40557-15	16	0.75-1.0	18	M.117083	M.118250
10-40557-20	16	1-2	14	M.117083	M.118250
10-40557-22	16	2.5	/	M.117083	M.118250
10-40557-22L	16	2.5	/	M.117083	M.118250
10-40557-26	16	2.5-3.0	12	M.117083	M.118250
10-40557-32	16	/	32-28	M.117083	M.118250
10-40561	12	2.5-3.0	12	M.117082	M.118250
10-40561-12	12	0.6	20	M.117083	M.118250
10-40561-15	12	0.75-1.0	18	M.117083	M.118250
10-40561-177	12	1.5	18-16	M.117082	M.118250
10-40561-20	12	2	14	M.117082	M.118250
10-40561-22	12	2.5	/	M.117082	M.118250
10-40561-30	12	4-5	/	M.117082	M.118250
10-40561-30M	12	4	/	M.117082	M.118250
10-40561-38	12	6	10	M.117082	M.118250
10-40792	8	9	8	M.117344	M.118260

Insertion and Removal Tools					
Part Number	Contact Size	Wire Size		Insertion Tool	Removal Tool
10-40792-15	8	0.75-1.0	18	M.117082	M.118260
10-40792-18	8	1-2	18-14	M.117082	M.118260
10-40792-20	8	2	14	M.117082	M.118260
10-40792-26	8	2.5-3.0	12	M.117082	M.118260
10-40792-30	8	4-5	/	M.117082	M.118260
10-40792-38	8	6	10	M.117344	M.118260
10-40792-50	8	10	/	M.117344	M.118260
10-40792-58	8	13.2	6	M.117344	M.118260
10-113474-4P	4	25	4	M.117347	M.118270
10-113474-4P-22	4	2.5	/	M.117082	M.118270
10-113474-4P-26	4	2.5-3.0	12	M.117082	M.118270
10-113474-4P-30	4	4-5	/	M.117082	M.118270
10-113474-4P-38	4	6	10	M.117344	M.118270
10-113474-4P-50	4	10	/	M.117344	M.118270
10-113474-4P-58	4	13.2	6	M.117344	M.118270
10-113474-4P-62	4	16	/	M.117347	M.118270
10-113474-1P	0	50-60	0	M.117348	M.118280
10-113474-1P-107	0	50	/	M.117348	M.118280
10-113474-1P-72	0	22-25	4	M.117347	M.118280
10-113474-1P-35	0	35	/	M.117348	M.118280
10-113474-1P-45	0	9	8	M.117344	M.118280
10-113474-1P-50	0	10	/	M.117344	M.118280
10-113474-1P-58	0	13.2	6	M.117344	M.118280
10-113474-1P-62	0	16	/	M.117347	M.118280
10-113474-0P	4/0	107	4/0	/	/
10-113474-0P-78	4/0	25	/	/	/
10-113474-0P-107	4/0	50	/	/	/
10-113474-0P-144	4/0	70	/	/	/

Please consult our sales department for other contacts or crimp tooling details.



Insertion Tool



Removal Tool

SOCKET CRIMP CONTACT - INSERTION AND REMOVAL TOOLS

Insertion and Removal Tool Part Numbers and Dimensions					
Part Number	Contact Size	Wire Size		Insertion tool	Removal Tool
		mm ²	AWG		
10-40520LC	20	0.15-0.6	26-20	M.117346	M.118251
10-40588	18	0.15-0.6	26-20	M.117346	M.118249
10-40552	16S	1-1.5	18-16	M.117083	M.118250
10-40552-12	16S	0.6	20	M.117083	M.118250
10-40552-13	16S	0.15-0.6	26-20	M.117346	M.118250
10-40552-15	16S	0.75-1	18	M.117083	M.118250
10-40552-20	16S	1-2	14	M.117083	M.118250
10-40552-26	16S	2.5-3.0	12	M.117082	M.118250
10-40556	16	1-1.5	18-16	M.117083	M.118250
10-40556-08	16	0.15-0.2	26-24	M.117346	M.118250
10-40556-12	16	0.6	20	M.117083	M.118250
10-40556-13	16	0.15-0.6	26-20	M.117346	M.118250
10-40556-15	16	0.75-1	18	M.117083	M.118250
10-40556-20	16	1-2	14	M.117083	M.118250
10-40556-22	16	2.5	/	M.117083	M.118250
10-40556-26	16	2.5-3.0	12	M.117082	M.118250
10-40556-32	16	/	32-28	M.117083	M.118250
10-40560	12	2.5-3.0	12	M.117082	M.118250
10-40560-12	12	0.6	20	M.117083	M.118250
10-40560-15	12	0.75-1	18	M.117083	M.118250
10-40560-177	12	1.5	18-16	M.117082	M.118250
10-40560-20	12	2	14	M.117082	M.118250
10-40560-22	12	2.5	/	M.117082	M.118250
10-40560-30	12	4-5	/	M.117082	M.118250
10-40560-30M	12	4	/	M.117082	M.118250
10-40560-38	12	6	10	M.117082	M.118250
10-40793-1	8	9	8	M.117344	M.118260
10-40793-1-15	8	0.75-1	18	M.117082	M.118260
10-40793-1-18	8	1-2	18-14	M.117082	M.118260

Insertion and Removal Tool Part Numbers and Dimensions					
Part Number	Contact Size	Wire Size		Insertion tool	Removal Tool
		mm ²	AWG		
10-40793-1-20	8	2	14	M.117082	M.118260
10-40793-1-26	8	2.5-3.0	12	M.117082	M.118260
10-40793-1-30	8	4-5	/	M.117082	M.118260
10-40793-1-38	8	6	10	M.117344	M.118260
10-40793-1-50	8	10	/	M.117344	M.118260
10-10793-1-58	8	13.2	6	M.117344	M.118260
10-113474-4S-1	4	22-25	4	M.117347	M.118270
10-113474-4S-1-22	4	2.5	/	M.117082	M.118270
10-113474-4S-1-26	4	2.5-3.0	12	M.117082	M.118270
10-113474-4S-1-30	4	4-5	/	M.117082	M.118270
10-113474-4S-1-38	4	6	10	M.117344	M.118270
10-113474-4S-1-50	4	10	/	M.117344	M.118270
10-113474-4S-1-58	4	13.2	6	M.117344	M.118270
10-113474-4S-1-62	4	16	/	M.117347	M.118270
10-113474-1S	0	50-60	0	M.117348	M.118280
10-113474-1S-107	0	50	/	M.117348	M.118280
10-113474-1S-72	0	22-25	4	M.117347	M.118280
10-113474-1S-35	0	35	/	M.117348	M.118280
10-113474-1S-45	0	9	8	M.117344	M.118280
10-113474-1S-50	0	10	/	M.117344	M.118280
10-113474-1S-58	0	13.2	6	M.117344	M.118280
10-113474-1S-62	0	16	/	M.117347	M.118280
10-113474-0S	4/0	107	4/0	/	/
10-113474-0S-78	4/0	22-25	4	/	/
10-113474-0S-107	4/0	50	/	/	/
10-113474-0S-144	4/0	70	/	/	/

Please consult our sales department for other contact options or crimping tool details.



Insertion Tool



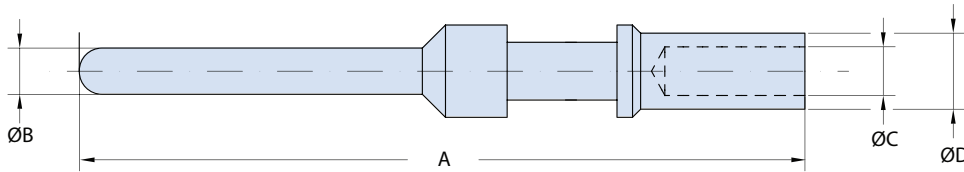
Removal Tool



Guide Pin

Guide Pin	
Contact size	Guide Pin P/N
20	M.125007
18	M.125000
16S and 16	M.125001
12	M.125002
8	M.125003
4	n/a
0	n/a
4/0	N/A

CRIMP PIN CONTACTS



PLATING OPTIONS
G10 : Silver (Standard)
G117 : Gold

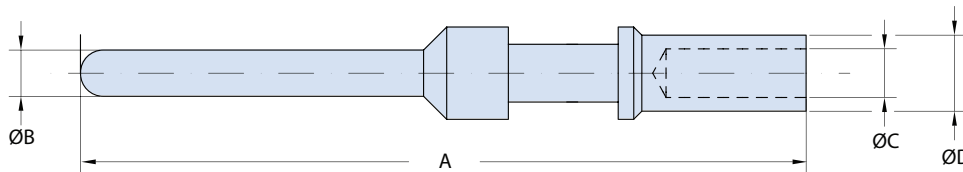
Pin Crimp Contact Part Number, Size and Dimensions

Part Number	Contact Size	A	ØB	ØC	ØD	Wire Size	
						mm ²	AWG
10-375-20	20	24.30 (0.957)	1.00 (0.039)	.30 (0.012)	1.93 (0.076)	0.15-0.6	26-20
10-40579	18	29.60 (1.165)	1.40 (0.055)	1.30 (0.051)	1.93 (0.076)	0.15-0.6	26-20
10-40553	16S	26.60 (1.047)	1.58 (0.062)	1.70 (0.067)	2.60 (0.102)	1-1.5	18-16
10-40553-12	16S	26.60 (1.047)	1.58 (0.062)	1.19 (0.047)	2.59 (0.102)	0.6	20
10-40553-13 ¹	16S	26.60 (1.047)	1.58 (0.062)	1.30 (0.051)	1.93 (0.076)	0.15-0.6	26-20
10-40553-15 ¹	16S	26.60 (1.047)	1.58 (0.062)	1.50 (0.059)	2.60 (0.102)	0.75-1.0	18
10-40553-20	16S	26.60 (1.047)	1.58 (0.062)	2.00 (0.079)	2.90 (0.114)	2	14
10-40553-26	16S	26.60 (1.047)	1.58 (0.062)	.50 (0.020)	3.8 (0.150)	2.5-3.0	12
10-40557	16	31.75 (1.250)	1.58 (0.062)	1.70 (0.067)	2.60 (0.102)	1-1.5	18-16
10-40557L	16	33.25 (1.309)	1.58 (0.062)	1.70 (0.067)	2.60 (0.102)	1-1.5	18-16
10-40557-08 ¹	16	31.75 (1.250)	1.58 (0.062)	0.85 (0.033)	1.55 (0.061)	0.15-0.2	26-24
10-40557-12 ¹	16	31.75 (1.250)	1.58 (0.062)	1.20 (0.047)	2.60 (0.102)	0.6	20
10-40557-13 ¹	16	31.75 (1.250)	1.58 (0.062)	1.30 (0.051)	.93 (0.037)	0.15-0.6	26-20
10-40557-15 ¹	16	31.75 (1.250)	1.58 (0.062)	1.50 (0.059)	2.60 (0.102)	0.75-1.0	18
10-40557-20 ²	16	31.75 (1.250)	1.58 (0.062)	2.00 (0.079)	2.90 (0.114)	2	14
10-40557-22 ²	16	31.75 (1.250)	1.57 (0.062)	2.2 (0.087)	3.8 (0.150)	2.5	/
10-40557-22L ²	16	33.25 (1.309)	1.57 (0.062)	2.2 (0.087)	3.8 (0.150)	2.5	/
10-40557-26 ²	16	31.75 (1.250)	1.58 (0.062)	2.5 (0.098)	3.8 (0.150)	2.5-3.0	12
10-40557-32 ¹	16	31.75 (1.250)	1.58 (0.062)	0.45 (0.018)	1.95 (0.077)	/	32-28
10-40561	12	37.65 (1.482)	2.38 (0.094)	2.50 (0.098)	3.90 (0.154)	2.5-3.0	12
10-40561-12 ¹	12	37.65 (1.482)	2.38 (0.094)	1.20 (0.047)	2.60 (0.102)	0.6	20
10-40561-15 ¹	12	37.65 (1.482)	2.38 (0.094)	1.50 (0.059)	2.60 (0.102)	0.75-1.0	18
10-40561-177 ¹	12	37.65 (1.482)	2.38 (0.094)	1.77 (0.070)	2.75 (0.108)	1.5	18-16
10-40561-20 ¹	12	37.65 (1.482)	2.38 (0.094)	2.00 (0.079)	3.90 (0.154)	2	14
10-40561-22 ¹	12	37.65 (1.482)	2.38 (0.094)	2.10 (0.083)	3.90 (0.154)	2.5	/
10-40561-30 ²	12	37.65 (1.482)	2.38 (0.094)	3.00 (0.118)	4.80 (0.189)	4-5	/
10-40561-30M ²	12	37.65 (1.482)	2.38 (0.094)	3.30 (0.130)	4.20 (0.165)	4	/
10-40561-38 ²	12	37.65 (1.482)	2.38 (0.094)	3.60 (0.142)	4.8 (0.189)	6	10

APPLICATION NOTES

- These contacts accept smaller wire than standard contacts. There may be a sealing issues with grommets. The max current rating is limited by the wire max current rating.
- These contacts accept larger wires than standard contacts. The reduced air/creepage resistance may worsen the service rating and there may be sealing issues with grommets. The max current rating is limited by the contact max current rating. See Page A-33
- Please consult our factory for other contact options or crimp tool details.

CRIMP PIN CONTACT



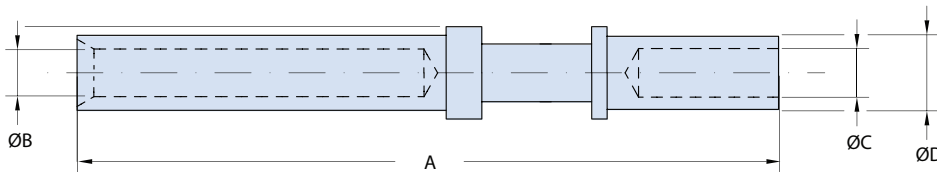
PLATING OPTIONS
G10 : Silver (Standard)
G117 : Gold

Pin Crimp Contact Part Number, Size and Dimensions							
Part Number	Contact Size	A	ØB	ØC	ØD	Wire Size	
						mm2	AWG
10-40792	8	42.00 (1.654)	3.60 (0.142)	4.50 (0.177)	6.90 (0.272)	9	8
10-40792-15 ¹	8	42.00 (1.654)	3.60 (0.142)	1.50 (0.059)	3.40 (0.134)	0.75-1.0	18
10-40792-18 ¹	8	42.00 (1.654)	3.60 (0.142)	1.80 (0.071)	3.80 (0.150)	1.2	18.14
10-40792-20 ¹	8	42.00 (1.654)	3.60 (0.142)	2.00 (0.079)	3.80 (0.150)	2	14
10-40792-26 ¹	8	42.00 (1.654)	3.60 (0.142)	2.5 (0.098)	3.80 (0.150)	2.5-3.0	12
10-40792-30 ¹	8	42.00 (1.654)	3.60 (0.142)	3.00 (0.118)	4.80 (0.189)	4-5	/
10-40792-38 ¹	8	42.00 (1.654)	3.60 (0.142)	3.60 (0.142)	6.80 (0.268)	6	10
10-40792-50 ²	8	42.00 (1.654)	3.60 (0.142)	5.00 (0.197)	6.90 (0.272)	10	/
10-40792-58 ²	8	42.00 (1.654)	3.60 (0.142)	5.80 (0.228)	7.80 (0.307)	13.2	6
10-113474-4P	4	42.00 (1.654)	5.70 (0.224)	7.10 (0.280)	9.53 (0.375)	22-25	4
10-113474-4P-22 ¹	4	42.00 (1.654)	5.70 (0.224)	2.20 (0.087)	3.80 (0.150)	2.5	/
10-113474-4P-25	Replaced by 10-113474-4P						
10-113474-4P-26 ¹	4	42.00 (1.654)	5.70 (0.224)	2.50 (0.098)	3.80 (0.150)	2.5-3.0	12
10-113474-4P-30 ¹	4	42.00 (1.654)	5.70 (0.224)	3.00 (0.118)	4.80 (0.189)	4-5	/
10-113474-4P-38 ¹	4	42.00 (1.654)	5.70 (0.224)	3.60 (0.142)	6.80 (0.268)	6	10
10-113474-4P-50 ¹	4	42.00 (1.654)	5.70 (0.224)	5.00 (0.197)	7.00 (0.276)	10	/
10-113474-4P-58 ¹	4	42.00 (1.654)	5.70 (0.224)	5.80 (0.228)	7.80 (0.307)	13.2	6
10-113474-4P-62 ¹	4	42.00 (1.654)	5.70 (0.224)	6.20 (0.244)	9.53 (0.375)	16	/
10-113474-1P	0	45.00 (1.772)	9.05 (0.356)	11.50 (0.453)	14.30 (0.563)	50-60	0
10-113474-1P-107 ¹	0	45.00 (1.772)	9.05 (0.356)	10.70 (0.421)	14.35 (0.565)	50	/
10-113474-1P-72 ¹	0	45.00 (1.772)	9.05 (0.356)	7.15 (0.281)	9.50 (0.374)	22-25	4
10-113474-1P-35 ¹	0	45.00 (1.772)	9.05 (0.356)	9.00 (0.354)	14.35 (0.565)	35	/
10-113474-1P-45 ¹	0	45.00 (1.772)	9.05 (0.356)	4.55 (0.179)	6.80 (0.268)	9	8
10-113474-1P-50 ¹	0	45.00 (1.772)	9.05 (0.356)	5.00 (0.197)	7.00 (0.276)	10	/
10-113474-1P-58 ¹	0	45.00 (1.772)	9.05 (0.356)	5.80 (0.228)	7.80 (0.307)	13.2	6
10-113474-1P-62 ¹	0	45.00 (1.772)	9.05 (0.356)	6.20 (0.244)	9.50 (0.374)	16	/
10-113474-0P ¹	4/0	63.00 (2.480)	12.69 (0.500)	16.5 (0.650)	20 (0.787)	107	4/0
10-113474-0P-78 ¹	4/0	63.00 (2.480)	12.69 (0.500)	7.10 (0.280)	9.53 (0.375)	22-25	4
10-113474-0P-107 ¹	4/0	63.00 (2.480)	12.69 (0.500)	10.7 (0.421)	14.35 (0.565)	50	/
10-113474-0P-144 ¹	4/0	63.00 (2.480)	12.69 (0.500)	14.5 (0.571)	20 (0.787)	70	/

APPLICATION NOTES

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3. Please contact factory for options.
4. Please consult our sales department for other contacts or crimp tooling details.

CRIMP SOCKET CONTACTS



PLATING OPTIONS
G10 : Silver (Standard)
G117 : Gold

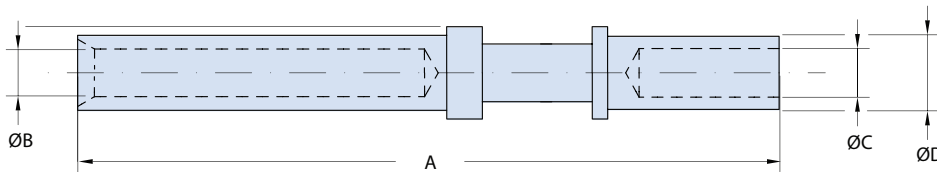
SUPER ITS: APPENDIX - INSERT ARRANGEMENTS / ACCESSORIES

Socket Crimp Contact Part Number, Size and Dimensions							
Part Number	Contact Size	A	ØB	ØC	ØD	Wire Size	
						mm2	AWG
10-40588	18	34.4 (1.35)	1.46 (0.057)	1.3 (0.051)	1.93 (0.076)	0.15-0.6	26-20
10-40552	16S	26.6 (1.05)	1.65 (0.065)	1.7 (0.067)	2.60 (0.102)	1-1.5	18-16
10-40552-12 ¹	16S	26.6 (1.05)	1.65 (0.065)	1.2 (0.047)	2.60 (0.102)	0.6	20
10-40552-13 ¹	16S	26.6 (1.05)	1.65 (0.065)	1.3 (0.051)	1.93 (0.076)	0.15-0.6	26-20
10-40552-15 ¹	16S	26.6 (1.05)	1.65 (0.065)	1.5 (0.059)	2.60 (0.102)	0.75-1	18
10-40552-20 ²	16S	26.6 (1.05)	1.65 (0.065)	2.0 (0.079)	2.90 (0.114)	2	14
10-40552-26 ²	16S	26.6 (1.05)	1.65 (0.065)	2.5 (0.098)	3.80 (0.150)	2.5-3.0	12
10-40556	16	36.5 (1.44)	1.65 (0.065)	1.7 (0.067)	2.60 (0.102)	1-1.5	18-16
10-40556-08 ¹	16	36.5 (1.44)	1.65 (0.065)	.85 (0.033)	1.55 (0.061)	0.15-0.2	26-24
10-40556-12 ¹	16	36.5 (1.44)	1.65 (0.065)	1.2 (0.047)	2.60 (0.102)	0.6	20
10-40556-13 ¹	16	36.5 (1.44)	1.65 (0.065)	1.3 (0.051)	1.93 (0.076)	0.15-0.6	26-20
10-40556-15 ¹	16	36.5 (1.44)	1.65 (0.065)	1.45 (0.057)	2.60 (0.102)	0.75-1	18
10-40556-20 ²	16	36.5 (1.44)	1.65 (0.065)	2.0 (0.079)	2.90 (0.114)	2	14
10-40556-22 ²	16	36.5 (1.44)	1.65 (0.065)	2.2 (0.087)	3.8 (0.150)	2.5	/
10-40556-26 ²	16	36.5 (1.44)	1.65 (0.065)	2.5 (0.098)	3.80 (0.150)	2.5-3.0	12
10-40556-32 ¹	16	36.5 (1.44)	1.65 (0.065)	.45 (0.018)	1.95 (0.077)	/	32-28
10-40560	12	37.65 (1.48)	2.48 (0.098)	2.5 (0.098)	3.9 (0.154)	2.5-3.0	12
10-40560-12 ¹	12	37.65 (1.48)	2.48 (0.098)	1.2 (0.047)	2.6 (0.102)	0.6	20
10-40560-15 ¹	12	37.65 (1.48)	2.48 (0.098)	1.45 (0.057)	2.60 (0.102)	0.75-1	18
10-40560-17 ¹	12	37.65 (1.48)	2.48 (0.098)	1.77 (0.070)	2.75 (0.108)	1.5	18-16
10-40560-20 ¹	12	37.65 (1.48)	2.48 (0.098)	2.0 (0.079)	3.8 (0.150)	2	14
10-40560-22 ¹	12	37.65 (1.48)	2.48 (0.098)	2.1 (0.083)	3.8 (0.150)	2.5	/
10-40560-30 ²	12	37.65 (1.48)	2.38 (0.094)	3.00 (0.118)	4.80 (0.189)	4-5	/
10-40560-30M ²	12	37.65 (1.48)	2.38 (0.094)	3.30 (0.130)	4.20 (0.165)	4	/
10-40560-38 ²	12	37.65 (1.48)	2.38 (0.094)	3.60 (0.142)	4.80 (0.189)	6	10

APPLICATION NOTES

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- These contacts accept larger wires than standard contacts. The reduced air/creepage resistance may worsen the service rating and there may be sealing issues with grommets. The max current rating is limited by the contact max current rating. See Page A-33
- Please contact factory for options.
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CRIMP SOCKET CONTACTS



PLATING OPTIONS
G10 : Silver (Standard)
G117 : Gold

Socket Crimp Contact Part Number, Size and Dimensions							
Part Number	Contact Size	A	ØB	ØC	ØD	Wire Size	
						mm2	AWG
10-40793-1	8	40.5 (1.59)	3.70 (0.146)	4.5 (0.177)	6.75 (0.266)	9	8
10-40793-1-15 ¹	8	40.5 (1.59)	3.70 (0.146)	1.45 (0.057)	3.4 (0.134)	0.75-1	18
10-40793-1-18 ¹	8	40.5 (1.59)	3.70 (0.146)	1.8 (0.071)	3.8 (0.150)	1-2	18-14
10-40793-1-20 ¹	8	40.5 (1.59)	3.60 (0.142)	2.00 (0.079)	3.80 (0.150)	2	14
10-40793-1-26 ¹	8	40.5 (1.59)	3.70 (0.146)	2.5 (0.098)	3.8 (0.150)	2.5-3.0	12
10-40793-1-30 ¹	8	40.5 (1.59)	3.70 (0.146)	3.0 (0.118)	4.8 (0.189)	4-5	/
10-40793-1-38 ¹	8	40.5 (1.59)	3.70 (0.146)	3.6 (0.142)	6.8 (0.268)	6	10
10-40793-1-50 ²	8	40.5 (1.59)	3.70 (0.146)	5.0 (0.197)	6.9 (0.272)	10	/
10-40793-1-58 ²	8	40.5 (1.59)	3.70 (0.146)	5.8 (0.228)	7.8 (0.307)	13.2	6
10-113474-4S-1	4	41.0 (1.61)	5.80 (0.228)	7.1 (0.280)	9.53 (0.375)	22-25	4
10-113474-4S-1-22 ¹	4	41.0 (1.61)	5.80 (0.228)	2.2 (0.087)	3.8 (0.150)	2.5	/
10-113474-4S-1-25	Replaced by 10-113474-4S-1						
10-113474-4S-1-26 ¹	4	41.0 (1.61)	5.80 (0.228)	2.5 (0.098)	3.8 (0.150)	2.5-3.0	12
10-113474-4S-1-30 ¹	4	41.0 (1.61)	5.80 (0.228)	3.0 (0.118)	4.8 (0.189)	4-5	/
10-113474-4S-1-38 ¹	4	41.0 (1.61)	5.80 (0.228)	3.6 (0.142)	6.8 (0.268)	6	10
10-113474-4S-1-50 ¹	4	41.0 (1.61)	5.80 (0.228)	5.0 (0.197)	7.0 (0.276)	10	/
10-113474-4S-1-58 ¹	4	41.0 (1.61)	5.80 (0.228)	5.8 (0.228)	7.8 (0.307)	13.2	6
10-113474-4S-1-62 ¹	4	41.0 (1.61)	5.80 (0.228)	6.2 (0.244)	9.5 (0.374)	16	/
10-113474-1S	0	44.6 (1.76)	9.17 (0.361)	11.5 (0.453)	14.3 (0.563)	50-60	0
10-113474-1S-107 ¹	0	44.6 (1.76)	9.17 (0.361)	10.7 (0.421)	14.35 (0.565)	50	/
10-113474-1S-72 ¹	0	44.6 (1.76)	9.17 (0.361)	7.15 (0.281)	9.5 (0.374)	22-25	4
10-113474-1S-35 ¹	0	44.6 (1.76)	9.17 (0.361)	9.0 (0.354)	14.35 (0.565)	35	/
10-113474-1S-45 ¹	0	44.6 (1.76)	9.17 (0.361)	4.55 (0.179)	6.8 (0.268)	9	8
10-113474-1S-50 ¹	0	44.6 (1.76)	9.17 (0.361)	5.0 (0.197)	7.0 (0.276)	10	/
10-113474-1S-58 ¹	0	44.6 (1.76)	9.17 (0.361)	5.8 (0.228)	7.8 (0.307)	13.2	6
10-113474-1S-62 ¹	0	45.3 (1.78)	9.17 (0.361)	6.2 (0.244)	9.5 (0.374)	16	/
10-113474-0S	4/0	65.9 (2.59)	12.7 (0.500)	16.5 (0.650)	20 (0.787)	107	4/0
10-113474-0S-78 ¹	4/0	65.9 (2.59)	12.7 (0.500)	7.15 (0.281)	9.5 (0.374)	22-25	4
10-113474-0S-107 ¹	4/0	65.9 (2.59)	12.7 (0.500)	10.7 (0.421)	14.35 (0.565)	50	/
10-113474-0S-144 ¹	4/0	65.9 (2.59)	12.7 (0.500)	14.5 (0.571)	20 (0.787)	70	/

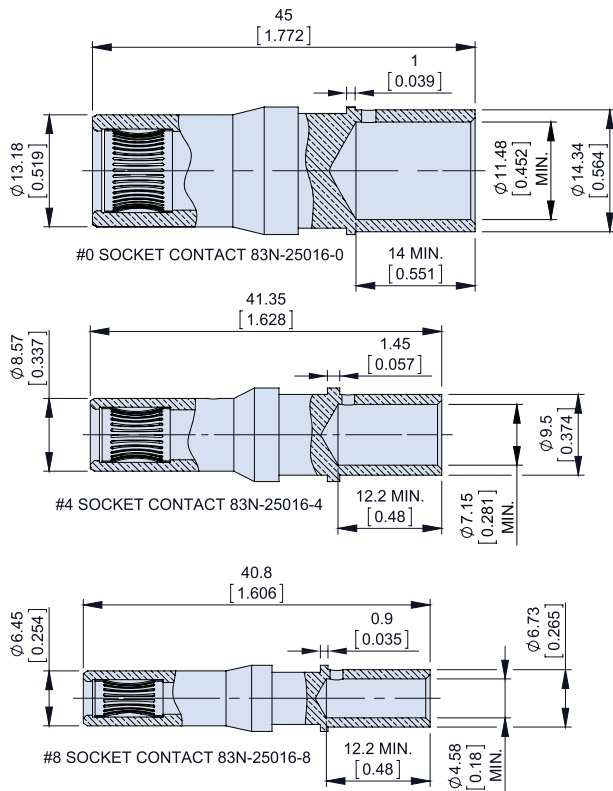
APPLICATION NOTES

1. These contacts accept smaller wire than standard contacts. There may be a sealing issues with grommets. The max current rating is limited by the wire max current rating.
2. These contacts accept larger wires than standard contacts. The reduced air/creepage resistance may worsen the service rating and there may be sealing issues with grommets. The max current rating is limited by the contact max current rating. See Page A-33
3. Please contact factory for options.
4. Please consult our sales department for other contacts or crimp tooling details.

LouverBand™ Socket Contacts
For Super ITS-MB and Super ITS-RG

LouverBand™ series contacts are precision-machined using high conductivity copper alloy. A stamped and formed spring (LouverBand) is installed into the socket contact. The spring is made from 6 mil beryllium copper (BeCu). Testing has demonstrated that this contact system outperforms conventional aerospace-grade contact systems. The LouverBand spring provides many points of electrical contact with the mating pin, as opposed to a few “high spots” on

a conventional four-finger contact as shown in Fig 1. The louverband design offers lower voltage drop for reduced temperature rise and higher current carrying capacity. In addition to its electrical advantages, the louverband also is mechanically superior to four-finger contacts. The louverband spring has consistent, stable normal force, even when subjected to thousands of mating cycles and temperature extremes.



LouverBand socket contact cutaway



Fig. 1
Conventional contact on the left.
LouverBand contact on the right

Size	Wire Size	Part Number
0	#0	83N-25016-0G10-L
4	#4	83N-25016-4G10-L
8	#8	83N-25016-8G10-L

Contact Size	Current Rating		Contact Resistance (mΩ Max.)	Min Separation Force (ounces) min Diameter SAE-AS31971 pin	Max Average Engagement Force (ounces) Max Diameter SAE-AS31971 pin
	Rated current at +20°C (Ampere)	Rated current at +80°C (Ampere)			
0	300	250	0.2	15	320
4	160	130	0.5	10	240
8	90	70	1	5	160

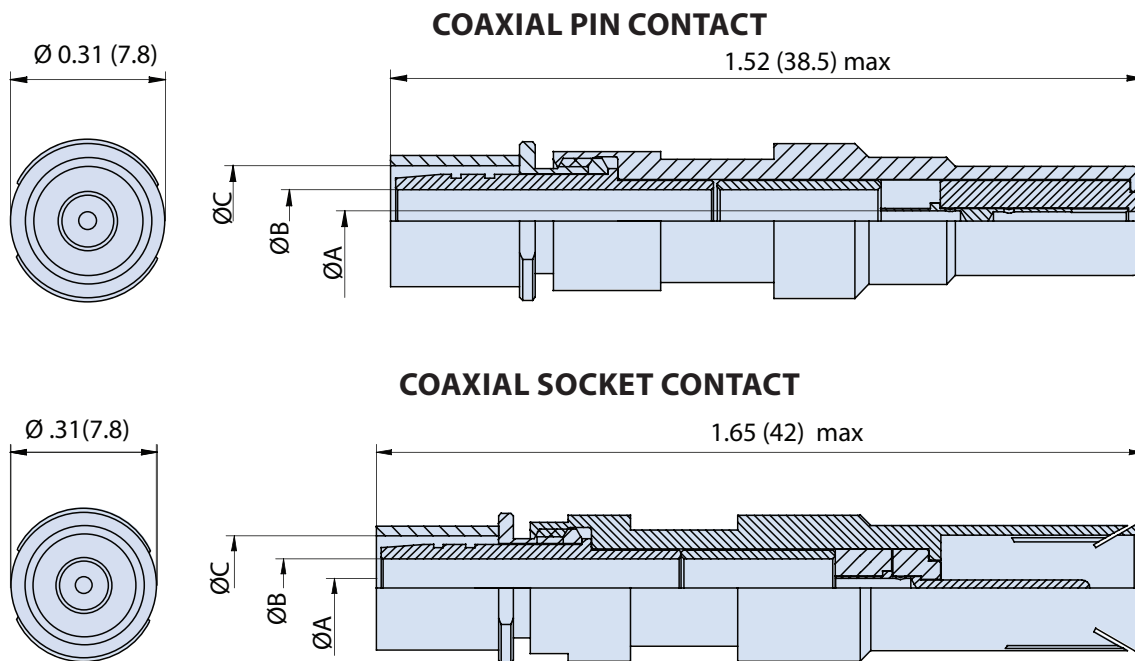
**ITS Bayonet Contact Reducers
For Super ITS-MB and Super ITS-RG**

Contact reducers are available for crimp contacts and allow for the installation of smaller wire size into a contact. To install fully insert the reducer into the wire barrel. once fully seated the wire and contact can be fully crimped.



Part Number	Contact Size	From wire size	To wire size
10-869-20A-26AG17	20	AWG 20	AWG 26
10-869-16A-22AG10	16	AWG 16	AWG 22
10-869-16A-20AG10	16	AWG 16	AWG 20
10-869-12A-26AG10	12	AWG 12	AWG 26
10-869-12A-20AG10	12	AWG 12	AWG 20
10-869-12A-16AG10	12	AWG 12	AWG 16
10-869-8A-18AG10	8	AWG 8	AWG 18
10-869-8A-16AG10	8	AWG 8	AWG 16
10-869-8A-14AG10	8	AWG 8	AWG 14
10-869-8A-12AG10	8	AWG 8	AWG 12
10-869-8A-10AG10	8	AWG 8	AWG 10
10-869-8A-2.5MG10	8	AWG 8	2.5 mm2
10-869-8A-6MG10	8	AWG 8	6 mm2
10-869-4A-8AG10	4	AWG 4	AWG 8
10-869-4A-6AG10	4	AWG 4	AWG 6
10-869-4A-16MG10	4	AWG 4	16 mm2
10-869-4A-10MG10	4	AWG 4	10 mm2
10-869-4A-6MG10	4	AWG 4	6 mm2
10-869-4A-2.5MG10	4	AWG 4	2.5 mm2
10-869-0A-6AG10	0	AWG 0	AWG 6
10-869-0A-2AG10	0	AWG 0	AWG 2
10-869-0A-50MG10	0	AWG 0	50 mm2
10-869-0A-35MG10	0	AWG 0	35 mm2
10-869-0A-25MG10	0	AWG 0	25 mm2
10-869-0A-16MG10	0	AWG 0	16 mm2
10-869-0A-10MG10	0	AWG 0	10 mm2
10-869-4/0A-70MG10	4/0	AWG 4/0	70 mm2

Contact reducers allow larger contacts to accept smaller wire than standard. There may be sealing issues with grommets. The max current rating is limited by the wire max current rating.



Coaxial Pin and Socket Contact Part Numbers, Cable Information and Dimensions					
Pin P/N	Socket P/N	Used with Cable	Ø A	Ø B	Ø C
CC 70038	CC 70040	RG 58	1.05 (0.04)	3.15 (0.12)	5.23 (0.21)
CC 70046	CC 70042	RG 59	.75 (0.03)	3.90 (0.15)	5.60 (0.22)
CC 70054	CC 70052	RG 179	.55 (0.02)	1.70 (0.07)	3.10 (0.12)
CC 70056	CC 70058	RG 174 / RG 316	.75 (0.03)	1.70 (0.07)	3.10 (0.12)
CC 70060	CC 70062	RG 142	1.05 (0.04)	3.15 (0.12)	5.60 (0.22)
CC 70064	CC 70066	RG 223	1.05 (0.04)	3.15 (0.12)	5.90 (0.23)

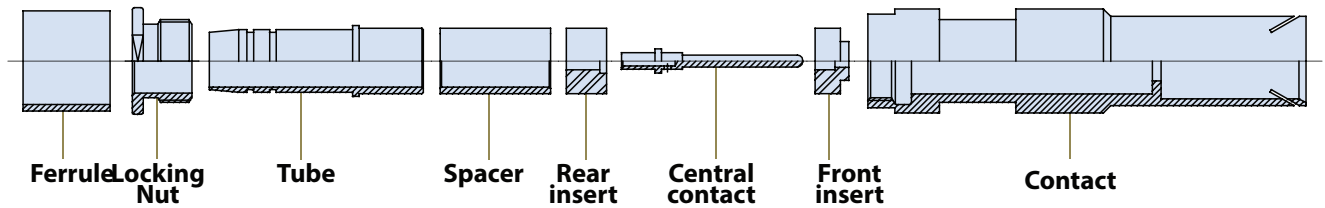
M.118260/C INSERTION AND EXTRACTION TOOL FOR SIZE 8 COAX CONTACTS



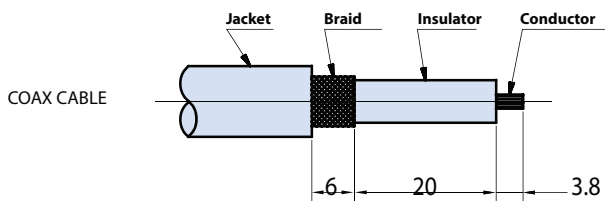
P/N : M.118260/C

Insertion and Extraction Tool for COAX Contacts Size 8

**Coaxial Contact Assembly Procedures
for Super ITS-MB and Super ITS-RG**



1 – Strip the cable according to the following dimensions



2 – Solder the central contact with the conductor of the coax cable after having pre-tinned the hole of the contact and the conductor, too

3 – Place the ferrule on the braid

4 – Place the locking nut on the tube and then this one on the insulator, then insert the tube under the braid

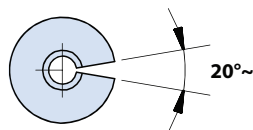
5 – Crimp the ferrule on the braid using the follow tools:

- Crimping tool: M22520 / 5-01
- Die assy for RG58: M22520 / 5-05 A
- Die assy for RG59: M22520 / 5-45 B
- Die assy for RG142: M22520 / 5-45 B
- Die assy for RG174: M22520 / 5-08 A
- Die assy for RG179: M22520 / 5-08 A
- Die assy for RG223: M22520 / 5-45 A

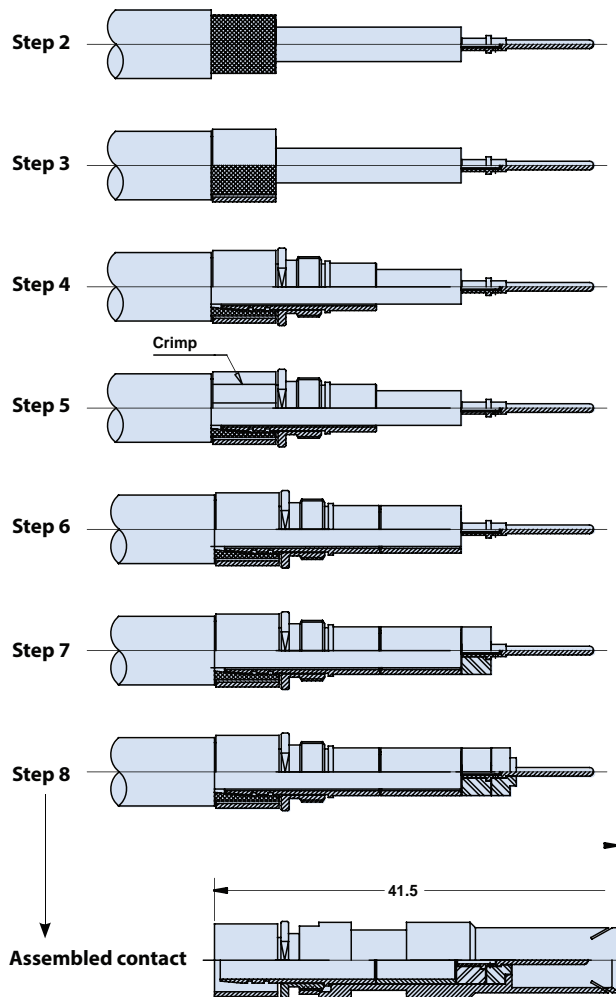
Note: the nut has to remain free to rotate

6 – Withdraw the spacer on the insulator till it stops against the tube

7 – Place the rear insert on the central contact by the cut on the side

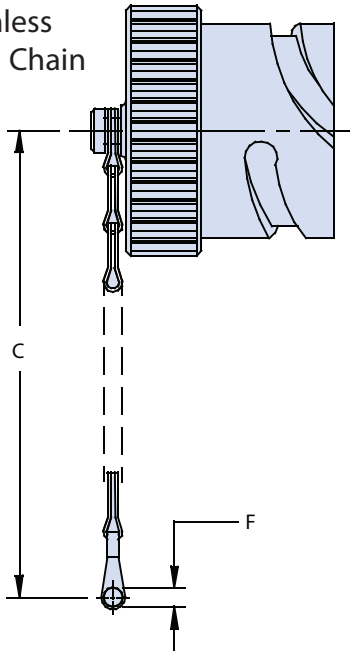


8 – Place the front insert on the central contact and insert everything inside the contact lightly pressing the rear insert; then screw the nut and the contact together.

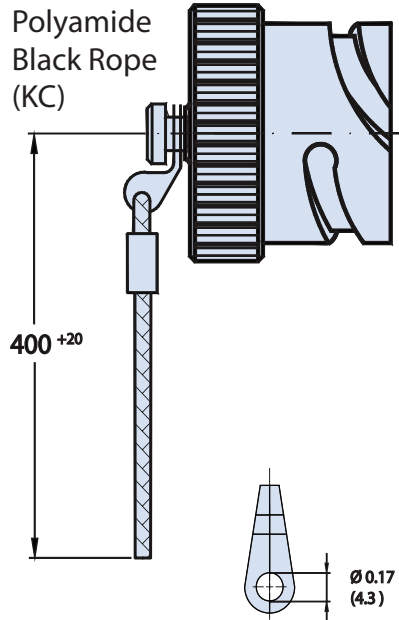


PLUG (06) COVER

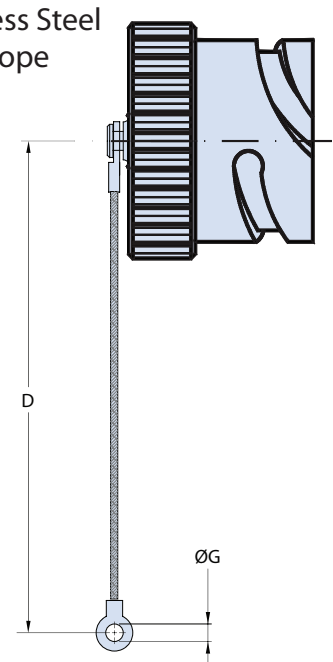
Stainless Steel Chain (T)



Polyamide Black Rope (KC)



Stainless Steel Wire Rope (TF)



Sample Part Number

ITB	06	T	-18	MB
Series	Plug Cover	Lanyard Type	Shell Size	Material and Finish

Lanyard Type

Code	Description
T	Stainless Steel Chain
TF	Stainless Steel Wire Rope
KC	Polyamide Black Rope

Material and Finish

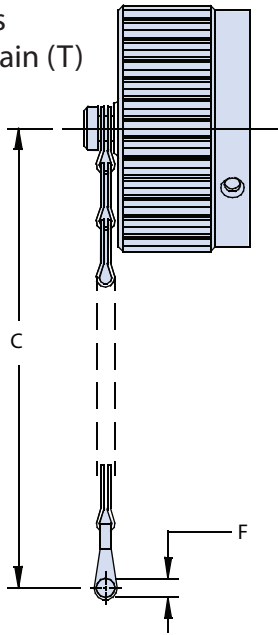
Code	Material/Finish
MB	Marine Bronze

Lanyard Dimensions

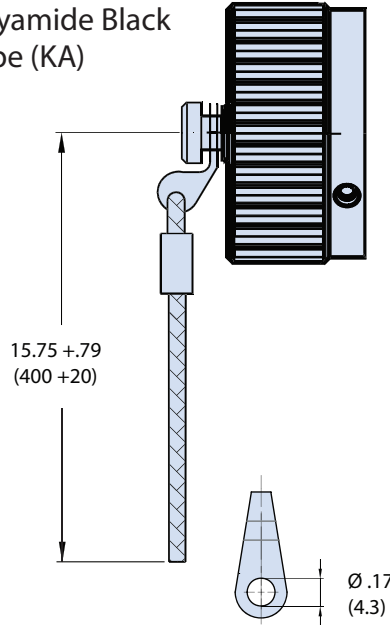
Shell Size	SST Chain (Lanyard Type T)		SST Wire Rope (Lanyard Type TF)	
	Std Length (C)	Ring Eyelet Dia (F)	Std Length (D)	Ring Eyelet Dia (G)
10SL	108 (4.25)	4.3 (0.17)	193 (7.60)	4.3 (0.17)
14S	123 (4.84)	4.3 (0.17)	193 (7.60)	4.3 (0.17)
16S	123 (4.84)	4.3 (0.17)	193 (7.60)	4.3 (0.17)
16	123 (4.84)	4.3 (0.17)	193 (7.60)	4.3 (0.17)
18	123 (4.84)	4.3 (0.17)	193 (7.60)	4.3 (0.17)
20	138 (5.43)	4.8 (0.19)	193 (7.60)	4.3 (0.17)
22	138 (5.43)	4.8 (0.19)	193 (7.60)	4.3 (0.17)
24	138 (5.43)	4.8 (0.19)	193 (7.60)	4.3 (0.17)
28	206 (8.11)	4.8 (0.19)	193 (7.60)	5.3 (0.21)
32	206 (8.11)	5.6 (0.22)	193 (7.60)	5.3 (0.21)
36	206 (8.11)	5.6 (0.22)	193 (7.60)	5.3 (0.21)
40	206 (8.11)	5.6 (0.22)	193 (7.60)	5.3 (0.21)

WALL MOUNT (02) RECEPTACLE COVER

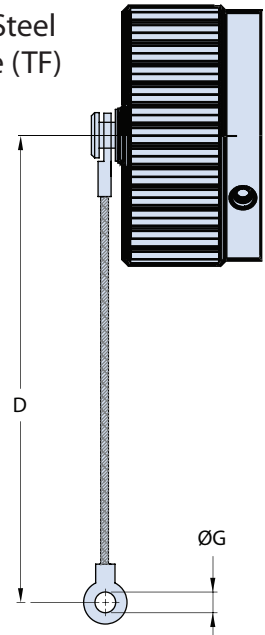
Stainless Steel Chain (T)



Polyamide Black Rope (KA)



Stainless Steel Wire Rope (TF)



Sample Part Number				
ITB	02	T	-18	MB
Series	Shell Style Cover Type	Lanyard Type	Shell Size	Material and Finish

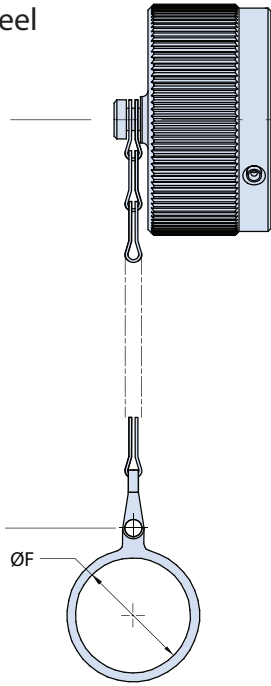
Lanyard Type	
Code	Description
T	Stainless Steel Chain
TF	Stainless Steel Wire Rope
KA	Polyamide Black Rope

Material and Finish	
Code	Material / Finish
MB	Marine Bronze

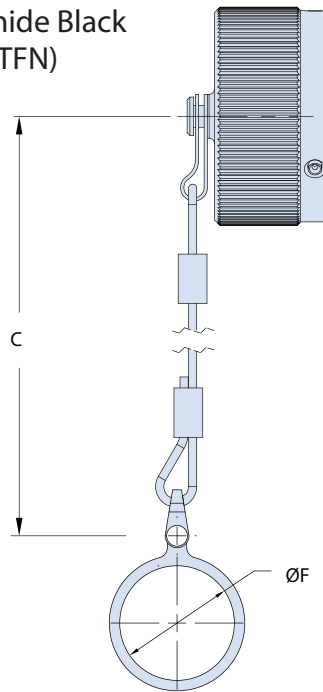
Shell Size	Lanyard Dimensions			
	SST Chain (Lanyard Type T)		SST Wire Rope (Lanyard Type TF)	
	Std Length (C)	Ring Eyelet Dia (F)	Std Length (D)	Ring Eyelet Dia (G)
10SL	108 (4.25)	109.22 (4.30)	193 (7.60)	4.3 (0.17)
14S	108 (4.25)	109.22 (4.30)	193 (7.60)	4.3 (0.17)
16S	108 (4.25)	109.22 (4.30)	193 (7.60)	4.3 (0.17)
16	123 (4.84)	109.22 (4.30)	193 (7.60)	4.3 (0.17)
18	123 (4.84)	109.22 (4.30)	193 (7.60)	4.3 (0.17)
20	123 (4.84)	109.22 (4.30)	193 (7.60)	4.3 (0.17)
22	123 (4.84)	109.22 (4.30)	193 (7.60)	4.3 (0.17)
24	123 (4.84)	109.22 (4.30)	193 (7.60)	4.3 (0.17)
28	206 (8.11)	142.24 (5.60)	193 (7.60)	5.3 (0.21)
32	206 (8.11)	142.24 (5.60)	193 (7.60)	5.3 (0.21)
36	206 (8.11)	142.24 (5.60)	193 (7.60)	5.3 (0.21)
40	206 (8.11)	142.24 (5.60)	193 (7.60)	5.3 (0.21)

JAM-NUT (07) RECEPTACLE COVER

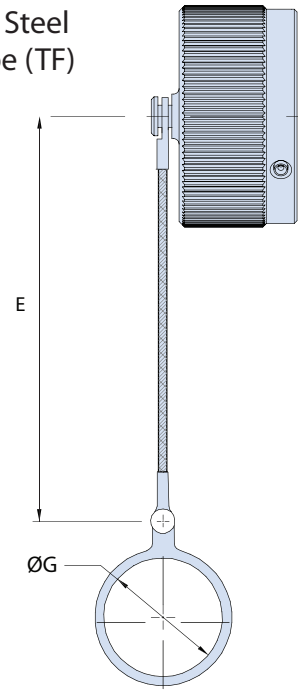
Stainless Steel Chain (T)



Polyamide Black Rope (TFN)



Stainless Steel Wire Rope (TF)



Sample Part Number				
ITB	07	T	-18	MB
Series	Basic P/N	Lanyard Type	Shell Size	Material and Finish

Lanyard Type	
Code	Description
T	Stainless Steel Chain
TF	Stainless Steel Wire Rope
TFN	Polyamide Black Rope

Material and Finish	
Code	Material / Finish
MB	Marine Bronze

Shell Size	Lanyard Dimensions			
	SST Chain (Lanyard Type T)		SST Wire Rope (Lanyard Type TF)	
	Std Length (C)	Ring Eyelet Dia (F)	Std Length (D)	Ring Eyelet Dia (G)
10SL	119 (4.69)	22.65 (0.89)	208 (8.19)	22.65 (0.89)
14S	121 (4.76)	29.00 (1.14)	208 (8.19)	29.00 (1.14)
16S	121 (4.76)	32.15 (1.27)	208 (8.19)	32.15 (1.27)
16	137 (5.39)	32.15 (1.27)	208 (8.19)	32.15 (1.27)
18	138 (5.43)	35.35 (1.39)	208 (8.19)	35.35 (1.39)
20	138 (5.43)	38.50 (1.52)	208 (8.19)	38.50 (1.52)
22	138 (5.43)	41.00 (1.61)	208 (8.19)	41.00 (1.61)
24	138 (5.43)	44.70 (1.76)*	208 (8.19)	45.00 (1.77)*
28	138 (5.43)	51.20 (2.02)*	208 (8.19)	51.20 (2.02)*
32	221 (8.70)	57.50 (2.26)*	208 (8.19)	57.50 (2.26)*
36	221 (8.70)	63.80 (2.51)*	208 (8.19)	63.80 (2.51)*
40	221 (8.70)	70.20 (2.76)*	208 (8.19)	70.20 (2.76)*

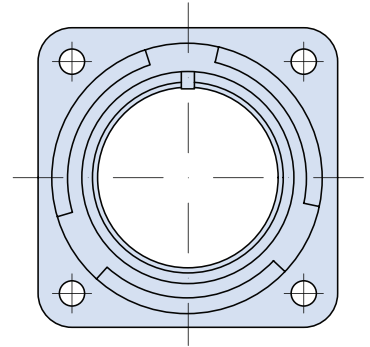
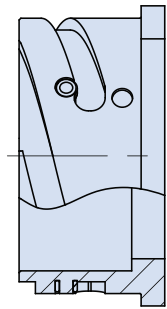
* Please contact the factory

ITS-MB OR IGE-MB FRONT PANEL MOUNT DUMMY STORAGE RECEPTACLE FOR PLUG

Sample Part Number			
ITS	05	-32	MB
Series	Basic P/N	Shell Size	Material and Finish

Series and Shell Sizes Available	
Series	Shell Sizes
ITS	10SL, 14S, 16S, 16, 18, 20, 22, 24, 28, 32, 36, 40
IGE	16, 18, 22, 28, 32

Material and Finish	
Code	Material / Finish
MB	Marine Bronze/Unplated



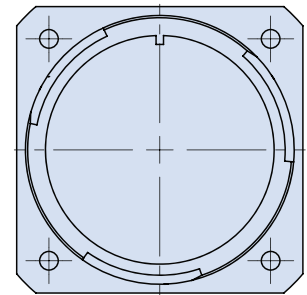
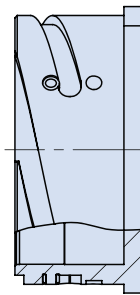
Dummy receptacle storage fitting protects the plug connector when not in use.

ITS-MB OR IGE-MB REAR PANEL MOUNT DUMMY STORAGE RECEPTACLE FOR PLUG

Sample Part Number			
ITS	050	-32	MB
Series	Basic P/N	Shell Size	Material and Finish

Series and Shell Sizes Available	
Series	Shell Sizes
ITS	10SL, 14S, 16S, 16, 18, 20, 22, 24, 28, 32, 36, 40
IGE	16, 18, 22, 28, 32

Material and Finish	
Code	Material / Finish
MB	Marine Bronze/Unplated



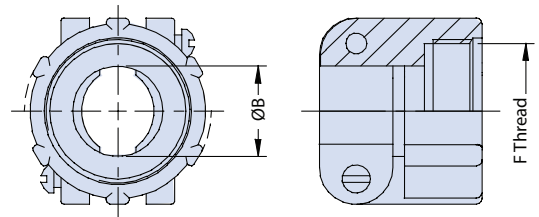
Dummy receptacle storage fitting protects the plug connector when not in use.

IT 3057 CLASS A CABLE CLAMP

Sample Part Number				
IT	3057	-16	A	MB
Series	Basic P/N	Shell Size Code	Class Code	Material and Finish

Part Number	Shell Size	Sleeve Part No.	ØB	F Thread
IT 3057-10A	18	IT 3420-10	16.0 (0.63)	1.0000 - 20UNEF
IT 3057-12A	20-22	IT 3420-12	19.0 (0.75)	1.1875 - 18UNEF
IT 3057-16A	24-28	IT 3420-16	23.8 (0.94)	1.4375 - 18UNEF
IT 3057-20A	32	IT 3420-20	31.7 (1.25)	1.7500 - 18UNS
IT 3057-24A	36	IT 3420-24	35.0 (1.38)	2.0000 - 18UNS
IT 3057-28A	40	IT 3420-28	41.2 (1.62)	2.2500 - 16UN

Material and Finish	
MB	Marine Bronze/Unplated

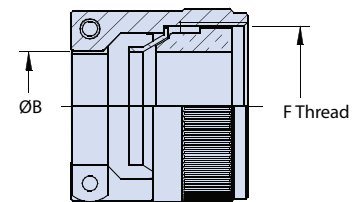


IT 3057, CLASS C CABLE CLAMP

Sample Part Number				
IT	3057	-18	C	MB
Series	Basic P/N	Shell Size Code	Class Code	Material and Finish

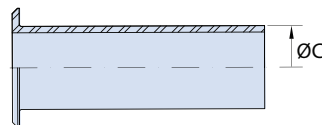
Part Number	Shell Size	Sleeve to Use	ØB		F Thread
			min.	Max.	
IT 3057-10C	18	IT 3420 - 6A / 10A	9.60 (0.378)	15.87 (0.625)	1.0000 - 20UNEF
IT 3057-12C	20-22	IT 3420 - 8A / 12A	11.30 (0.445)	19.00 (0.748)	1.1875 - 18UNEF
IT 3057-16C	24-28	IT 3420 - 8A / 12A / 16A	15.50 (0.610)	23.80 (0.937)	1.4375 - 18UNEF
IT 3057-20C	32	IT 3420 - 12A / 16A / 20A	23.40 (0.921)	31.75 (1.250)	1.7500 - 18UNS
IT 3057-24C	36	IT 3420 - 16A / 18A / 24A	23.40 (0.921)	35.00 (1.378)	2.0000 - 18UNS
IT 3057-28C	40	IT 3420 - 16A / 20A / 28A	29.90 (1.177)	41.25 (1.624)	2.2500 - 16UN

Material and Finish	
MB	Marine Bronze/Unplated



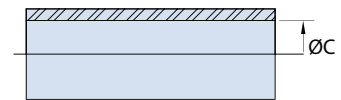
NEOPRENE SLEEVE FOR CLASS A CABLE CLAMPS

Part Number	ØC
IT 3420 - 10	14.3 (0.56)
IT 3420 - 12	15.9 (0.63)
IT 3420 - 16	19.1 (0.75)
IT 3420 - 20	23.8 (0.94)
IT 3420 - 24	31.8 (1.25)
IT 3420 - 28	34.9 (1.37)



NEOPRENE SLEEVE FOR CLASS C CABLE CLAMPS

Part Number	ØC
IT 3420 - 6A	10.8 (0.43)
IT 3420 - 8A	13.5 (0.53)
IT 3420 - 10A	15.6 (0.61)
IT 3420 - 12A	18.8 (0.74)
IT 3420 - 16A	23.5 (0.93)
IT 3420 - 20A	31.5 (1.24)
IT 3420 - 24A	34.7 (1.37)
IT 3420 - 28A	41.0 (1.61)

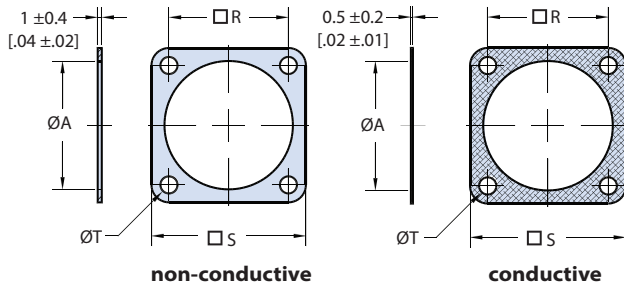


Sample Part Number	
IT 3420	10
Series	Shell Size

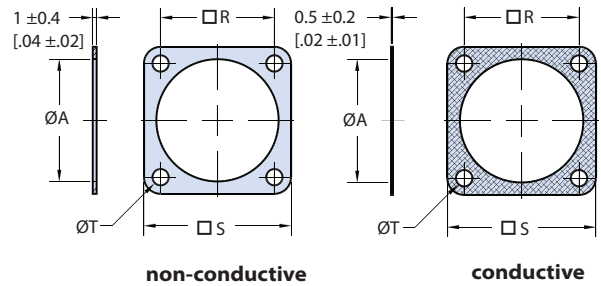
Sample Part Number	
IT 3420	6A
Series	Shell Size

For Super ITS-MB, Super ITS-RG and Super IGE-MB
Front and Rear Panel Mount, Wall Mount Gaskets

**IT 40450 FRONT PANEL MOUNT. WALL MOUNT
RECEPTACLE GASKET**



**IT 40460 REAR PANEL MOUNT. WALL MOUNT
RECEPTACLE GASKET**



Sample Part Number			
ITB	40450	-18	V
Series	Basic P/N	Shell Size	Material

Sample Part Number			
ITB	40460	-18	S
Series	Basic P/N	Shell Size	Material

Dimensions					
Part No./ Shell Size	Shell Size Ref	ØA +1	R ±0.2	S ±0.5	ØT +0.5
IT40450-10	10SL	15.7 (0.62)	18.2 (0.72)	25.4 (1.00)	4.2 (0.17)
IT40450-14	14S	22.1 (0.87)	23.0 (0.91)	30.0 (1.18)	4.2 (0.17)
IT40450-16	16S-16	25.3 (1.00)	24.6 (0.97)	32.5 (1.28)	4.2 (0.17)
IT40450-18	18	28.4 (1.12)	27.0 (1.06)	35.0 (1.38)	4.2 (0.17)
IT40450-20	20	31.6 (1.24)	29.4 (1.16)	38.0 (1.50)	4.2 (0.17)
IT40450-22	22	34.8 (1.37)	31.8 (1.25)	41.0 (1.61)	4.2 (0.17)
IT40450-24	24	38.0 (1.50)	34.9 (1.37)	44.5 (1.75)	4.2 (0.17)
IT40450-28	28	44.3 (1.74)	39.7 (1.56)	50.8 (2.00)	5.1 (0.20)
IT40450-32	32	50.7 (2.00)	44.5 (1.75)	57.0 (2.24)	5.1 (0.20)
IT40450-36	36	57.0 (2.24)	49.2 (1.94)	63.5 (2.50)	5.1 (0.20)
IT40450-40	40	62.5 (2.46)	55.5 (2.19)	69.9 (2.75)	5.1 (0.20)

Dimensions					
Part No./ Shell Size	Shell Size Ref	ØA +1	R ±0.2	S ±0.5	ØT +0.5
IT40460-10	10SL	15.7 (0.62)	18.2 (0.72)	25.4 (1.00)	4.2 (0.17)
IT40460-14	14S	22.1 (0.87)	23.0 (0.91)	30.0 (1.18)	4.2 (0.17)
IT40460-16	16S-16	25.3 (1.00)	24.6 (0.97)	32.5 (1.28)	4.2 (0.17)
IT40460-18	18	28.4 (1.12)	27.0 (1.06)	35.0 (1.38)	4.2 (0.17)
IT40460-20	20	31.6 (1.24)	29.4 (1.16)	38.0 (1.50)	4.2 (0.17)
IT40460-22	22	34.8 (1.37)	31.8 (1.25)	41.0 (1.61)	4.2 (0.17)
IT40460-24	24	38.0 (1.50)	34.9 (1.37)	44.5 (1.75)	4.2 (0.17)
IT40460-28	28	44.3 (1.74)	39.7 (1.56)	50.8 (2.00)	5.1 (0.20)
IT40460-32	32	50.7 (2.00)	44.5 (1.75)	57.0 (2.24)	5.1 (0.20)
IT40460-36	36	57.0 (2.24)	49.2 (1.94)	63.5 (2.50)	5.1 (0.20)
IT40460-40	40	62.5 (2.46)	55.5 (2.19)	69.9 (2.75)	5.1 (0.20)

Material	
Sym	Description
Omit for Neoprene	
S	Conductive; Wire Mesh in Neoprene Substrate
F	Fluorosilicone
V	Viton
Y	Silicone

Material	
Sym	Description
Omit for Neoprene	
S	Conductive; Wire Mesh in Neoprene Substrate
F	Fluorosilicone
V	Viton
Y	Silicone

IT-305045 WIRE HOLE PLUG FOR CONTACT INSERTS

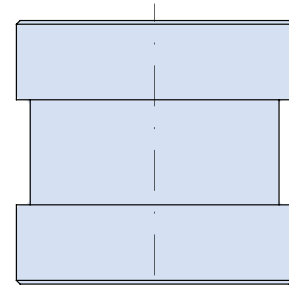
Part Number	Contact Size	Color
10-305045-16	16S - 16	Blue
10-101033-13	12	Yellow
10-305045-8	8	White
10-305045-4	4	Green
10-305045-0	0	Black
10-305045-01	0M	Black

APPLICATION NOTES

1. Contact Hole Plug - Insert Version.
2. Used to fill an insert cavity in order to maintain the environmental seal when a cavity is without contact



10-305045-16



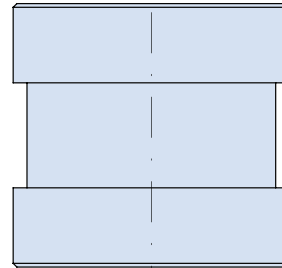
10-101033-13 thru 01

IT-101033 WIRE HOLE PLUG FOR CONTACT INSERTS

Part Number	Contact Size	Color
10-101033-12	16S - 16	Blue
10-101033-13	12	Yellow
10-101033-14	8	White
10-101033-15	4	Green
10-101033-16	0	Black

APPLICATION NOTES

1. Contact Hole Plug - Insert Version.
2. Used to fill an insert cavity in order to maintain the environmental seal when a cavity is without contact



10-101033-XX



ISO/IEC 17025

BLQ ENV-Test: IEC Qualified Laboratory, Inspection, and Measurement Services

ISO 9001 and EN 9100 registered; comprehensive test plans, reports, and documentation IAW customer requirements

Environmental testing, consisting of the complete range of mechanical, electrical and environmental stress factors that affect electronic equipment, cabling, and systems is now available from BLQ ENV-Test, Glenair’s IEC/IECQ certified independent testing laboratory, offering accelerated lead times—from initial quoting to final test report delivery.

Electrical	Insulation · High Voltage Dielectric Test · Resistance Current · Partial Discharge · EMC Shielding
Ethernet/Optic	Ethernet Certification · Optical Insertion Loss / Return Loss Photonic / Color / Lux Intensity Measurement
Environmental	Heat · Cold · Thermal Shock · Humidity · Ice · Salt Spray Low Pressure · Fluid Test · Seal and Pressure
Mechanical / Dynamics	Vibration · Mechanical Shock · Compression Force Tensile Strength · Torque Force · Release Mechanism Test
Leakage	Oil Leakage · Air Leakage · Helium Leakage Watertightness IP67 and IP68
Metrology and Dimensional	Dimensional · Profile Measurement · Thread Measurement Hardness Testing · Roughness Measurement
Rubber and Plastic Materials	Density Measurement · Compression Set · FTIR · Hardness Elongation at Break · Tensile Strength · Dielectric Breakdown
Plating	Elemental Composition of the Plating Metallographic Section Plating Adhesion and Corrosion · X-Ray Measurement
Harnessing	Automatic Test of Insulation · Resistance Dielectric Withstanding Voltage

- Mechanical / dynamic testing for both electrical and fiber optic components, subsystems, and wiring harnesses
- Automatic testing of harnessing with scientific root cause analysis
- Fast turnaround on quotes and testing services
- Decades of experience
- Unique expertise in high-voltage (partial discharge) testing
- Professionally prepared test reports supplied for every project
- Ample in-house resources for both small and large-scale equipment test plans



Electrical Tests

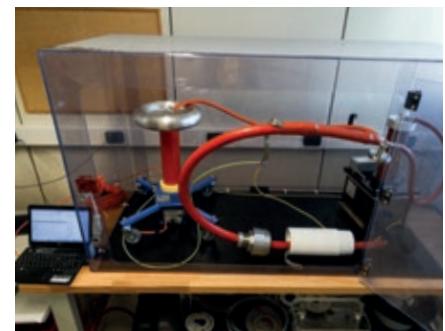
ELECTRICAL / EMC TESTING

CONTACT RESISTANCE	APPLICABLE STANDARD
Minimum res. 1 $\mu\Omega$	ISO/IEC 17025 Accredited test: BS EN / IEC 60512-2-1 ; BS EN / IEC 60512-2-2
	Standard which we are specialist: EIA-364-06; EIA-364-23; SAE AS39029; VG95234; VG95328; VG96929; VG95351; VG96934; VG95319-2; MIL-DTL-26482; MIL-DTL-38999; AFNOR NF F 61-030
INSULATION RESISTANCE & INSULATION RESISTANCE AT HIGH TEMPERATURE	APPLICABLE STANDARD
1 - 1500 VDC ; 100 Ω - 2000 T Ω	ISO/IEC 17025 Accredited test: BS EN / IEC 60512-3-1
Up to 260°C	Standard which we are specialist: EIA-364-21; VG95234; VG95328; VG96929; VG95351; VG96934; VG95319-2; MIL-DTL-26482; MIL-DTL-38999; SAE AS 50151; AFNOR NF F 61-030; MIL-DTL-38999; MIL-DTL-26482
DIELECTRIC WITHSTANDING VOLTAGE SEA LEVEL & ALTITUDE	APPLICABLE STANDARD
AC Voltage 50 Hz - 60Hz : 0 - 50 KVAC ; Max I. Leak: 300mA	ISO/IEC 17025 Accredited test: BS EN / IEC 60512-3-1
DC Voltage: 1 - 1500 VDC	Standard which we are specialist: EIA-364-21; VG95328; VG96929; VG95351; VG96934; VG95234; VG95319-2; EIA-364-20; MIL-DTL-26482; MIL-DTL-38999; AFNOR NF F 61-030
Pressure 5mBar	
CURRENT TEMPERATURE RISE AND CURRENT DE-RATING	APPLICABLE STANDARD
DC Current : 0 - 2000 Ampere	ISO/IEC 17025 Accredited test: BS EN / IEC 60512-5-1 ; BS EN / IEC 60512-5-2
	Standard which we are specialist: AFNOR NF F 61-030; VG95328; VG96929; VG95319-2; VG95234; EIA-364-70
PARTIAL DISCHARGE	SPECIFICATION APPLICABLE
AC Voltage 50 Hz - 60Hz : 0 - 50 KVAC ; Max I. Leak: 300mA	Standard which we are specialist: ASTM D 1868-07; IEC 60270; EN 2591-227
PD event time resolution: < 2 ns	
Minimum PD level: 4 pC	
Center frequency 0 Hz \pm 32 MHz	
Frequency domain bandwidth: 9 kHz, 40 kHz, 100 kHz, 160 kHz, 300kHz, 650kHz, 1MHz, 1.5MHz	
HOUSING / SHELL-TO-SHELL CONDUCTIVITY	SPECIFICATION APPLICABLE
Resolution: 0,001mV	ISO/IEC 17025 Accredited test: BS EN / IEC 60512-2-6
	Standard which we are specialist: EIA-364-83; MIL-DTL-26482; MIL-DTL-38999; VG95234; VG95328; VG96929; VG95351; VG96934; VG95319-2
EMC-EMI	APPLICABLE STANDARD
Shielding effectiveness	ISO/IEC 17025 Accredited test: BS EN / IEC 62153-4-7
Ti axial Method	Standard which we are specialist: VG95328; VG96929; VG96934; VG95319-2; VG95234; MIL-DTL-26482; MIL-DTL-38999
9 kHz - 2,6 GHz ; 90dB max.	
MAGNETIC PERMEABILITY	SPECIFICATION APPLICABLE
1.5 μ ; 2.0 μ ; 2.5 μ	Standard which we are specialist: EIA-364-54; ASTM A342/A342M; MIL-DTL-26482; MIL-DTL-38999

Electrical / EMC Testing services cover the complete range of performance requirements for interconnect cabling and electronic components. Glenair brings years of EMC design engineering experience into the testing process, ensuring equipment under test is always correctly fixtured and prepared for the most accurate results.

Available Tests:

- Contact resistance
- Dielectric withstanding voltage (DWV)
- Current rating
- Insulation resistance
- EMC shielding
- Partial discharge



ETHERNET / OPTICAL FIBER / HIGH SPEED DATA



ETHERNET	SPECIFICATION APPLICABLE
Up to CAT. Fa	Standard which we are specialist: CEI EN 50173; TIA/EIA 568; ISO/IEC 11801

OPTICAL FIBER - INSERTION LOSS	SPECIFICATION APPLICABLE
850/1300/1310/1550 nm; Res. 0,01dB	Standard which we are specialist: TIA/EIA-455-34; MIL-PRF-28776

OPTICAL FIBER - RETURN LOSS	SPECIFICATION APPLICABLE
850/1300/1310/1550 nm	Standard which we are specialist: TIA/EIA-455-107; MIL-PRF-28776

PHOTONIC / OPTICAL TESTS

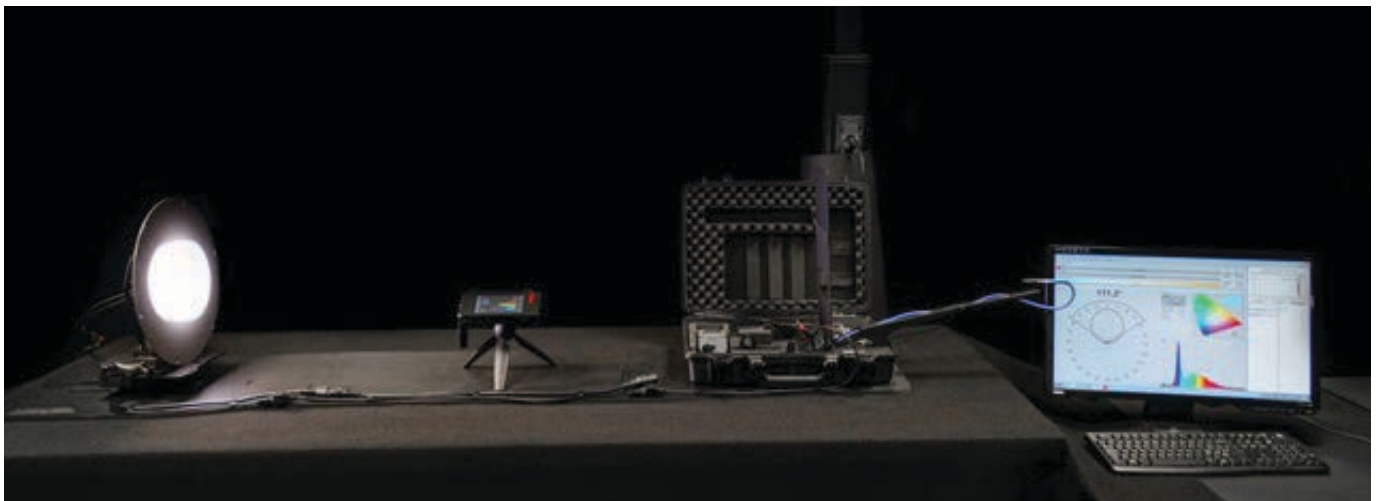
Light measurement, to measure the main luminous features of our lighting products for railways, such as headlights, taillights, traffic lights, and other onboard or trackside lighting devices.

Inside this dark room we are able to measure luminous flux (lumen), luminous intensity (candle), chromatic coordinates

(X,Y), color rendering index (CRI), color temperature (CCT), the spectral chart and the angular distribution of the light.

Our fixed equipment measures features inside our dark room, and our small portable device makes measurements in remote locations.

PHOTONIC TESTS	SPECIFICATION APPLICABLE
Flux, Lumen: 10 - 50,000; Intensity, candela: 10 - 50,000; Color Temperature: 1,000 - 10,000 K; CRI Index: 0 - 100	Standard which we are specialist: CEI EN 60598-1



Environmental Tests

TEMPERATURE / HUMIDITY TESTING

DAMP HEAT STEADY STATE	APPLICABLE STANDARD
Temp. Range : +10°C to +90°C	ISO/IEC 17025 Accredited test: BS EN / IEC 60068-2-3 Standard which we are specialist: EIA-364-31; AFNOR NF F 61-030; VG95328; VG96929; VG95351; VG96934; VG95319-2; VG95234; MIL-DTL-38999; MIL-DTL-26482
Humidity Range : 10 to 98%rh	
Chamber Size:	
690mmx600mmx610mm 500mmx610mmx500mm	

DAMP HEAT-CYCLIC	APPLICABLE STANDARD
Temp. Range : +10°C to +90°C (with humidity) ; -40°C to 180°C	ISO/IEC 17025 Accredited test: BS EN / IEC 60068-2-30 Standard which we are specialist: EIA-364-31; AFNOR NF F 61-030; VG95328; VG96929; VG95351; VG96934; VG95319-2; VG95234; MIL-DTL-38999; MIL-DTL-26482
Humidity Range : 10 to 98%rh	
Chamber Size :	
650mmx500mmx600mm 800mmx600mmx500mm	

COLD	APPLICABLE STANDARD
Min Temp : -65°C	ISO/IEC 17025 Accredited test: BS EN / IEC 60068-2-1 Standard which we are specialist: EIA-364-59 ; VG95234; VG95328; VG96929; VG95351; VG96934; VG95319-2
Max chamber size :	
800mmx600mmx500mm	

ICE RESISTANCE	APPLICABLE STANDARD
Min Temp : -65°C	Standard which we are specialist: MIL-DTL-38999
Max chamber size :	
800mmx600mmx500mm	

Temperature and Humidity Testing is performed using industry-standard and IEC accepted practices of temperature cycling and humidity exposure. New and high-quality testing equipment ensures accurate results.

Available Tests:

- Dry heat
- Dry cold
- Damp heat steady state
- Damp heat cyclic
- Thermal shock



Environmental Test

CORROSION / FLUID

DRY HEAT - TEMPERATURE LIFE TEST	APPLICABLE STANDARD
Maximum Temp : +260°C	ISO/IEC 17025 Accredited test: BS EN / IEC 60068-2-2
Chamber Size :	Standard which we are specialist: EIA-364-17; VG95234; VG95328; VG96929; VG95351; VG96934; VG95319-2; MIL-DTL-26482; MIL-DTL-38999; AFNOR NF F 61-030
500mmx600mmx600mm	
THERMAL SHOCK / TEMPERATURE CYCLING	APPLICABLE STANDARD
Temp. Range : -65°C to +260°C	ISO/IEC 17025 Accredited test: BS EN / IEC 60068-2-14
Manual (two chambers method)	Standard which we are specialist: EIA-364-32; VG95234; VG95328; VG96929; VG95351; VG96934; VG95319-2; MIL-DTL-26482; MIL-DTL-38999; AFNOR NF F 61-030
CHANGE OF TEMPERATURE	APPLICABLE STANDARD
Gradual in air; -75°C / +180°C ; -75°C to +180°C: 5°C/Min ; +180°C to -75°C: 2,5°C/Min	ISO/IEC 17025 Accredited test: BS EN / IEC 60068-2-14
LOW PRESSURE / ALTITUDE / ALTITUDE IMMERSION	APPLICABLE STANDARD
Sea level to 5mBar ; up to 200°C	Standard which we are specialist: EIA-364-03; MIL-DTL-26482; VG95234; VG95328; VG96929; VG95319-2.
SALT SPRAY / CORROSION TEST	APPLICABLE STANDARD
Max chamber size : 500 Lt	ISO/IEC 17025 Accredited test: BS EN / IEC 60068-2-11
Salt spray static, cyclic (salt spray + humidity), dynamic (salt spray + durability)	Standard which we are specialist: IEC 60068-2-52; ASTM B117-11; ISO 9227; ASTM D1654 - 92; AFNOR NF F 61-030; EIA-364-26; VG95234; VG95328; VG96929; VG95351; VG96934; VG95319-2; MIL-DTL-26482; MIL-DTL-38999
FLUID RESISTANCE	APPLICABLE STANDARD
Testing & evaluation of materials to fluid.	Standard which we are specialist: EIA-364-10; MIL-DTL-38999; MIL-DTL-26482; VG95234; VG95328; VG96929; VG95351; VG96934; VG95319-2; MIL-DTL-38999; MIL-DTL-26482; AFNOR NF F 61-030

Accelerated harsh-weather testing is performed to ensure components under test meet qualification requirements for galvanic corrosion and resistance, resistance to solvents, and SO2.

Available Tests:

- Salt spray/SO2
- Resistance to solvents



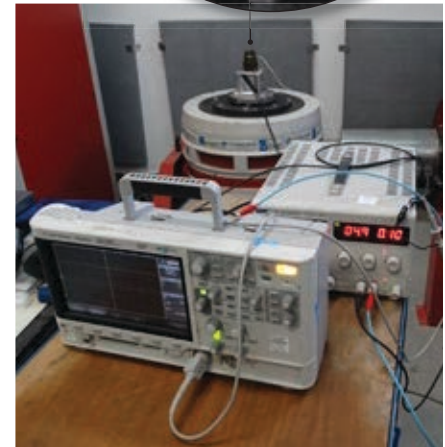
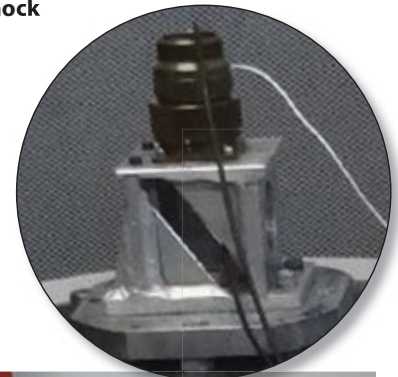
MECHANICAL / DYNAMIC TESTING / LEAKAGE

VIBRATION - SINUSOIDAL	APPLICABLE STANDARD
Freq. Range: 5 to 2000 Hz Peak thrust: 8,90kN (30G max. up to 5Kg.sample) Max pk/pk displacement: 50mm Ambient temperature	ISO/IEC 17025 Accredited test: BS EN / IEC CEI EN 60068-2-6 Standard which we are specialist: EIA-364-28; VG95351; VG96934; VG95319-2; MIL-DTL-26482; AFNOR NF F 61-030
VIBRATION - RANDOM	APPLICABLE STANDARD
Freq. Range: 5 to 2000 Hz Peak thrust: 5,76kN (25G max. up to 5Kg.sample) Max pk/pk displacement: 50mm	ISO/IEC 17025 Accredited test: BS EN / IEC CEI EN 60068-2-64 Standard which we are specialist: EIA-364-28; VG95234; VG95328; VG96929; VG95319-2; MIL-DTL-26482; EN 61373; AFNOR NF F 61-030
SHOCK - BUMP	APPLICABLE STANDARD
(Half sine, Sawtooth, and Trapezoidal waveforms) Peak thrust: 17,36kN (100G max. up to 5Kg.sample) Max pk/pk displacement: 50mm	ISO/IEC 17025 Accredited test: BS EN / IEC CEI EN 60068-2-27 ; BS EN / IEC CEI EN 60068-2-29 Standard which we are specialist: EIA-364-27; VG95234; VG95328; VG96929; VG95351; VG96934; VG95319-2; CEI EN 61373; MIL-DTL-26482
DISCONTINUITY MEASUREMENT DURING VIBRATION	APPLICABLE STANDARD
Measurement of electrical discontinuity (up to 0,1µs) or fiber optic insertion loss	Standard which we are specialist: EIA-364-28
AXIAL FORCE (compression and tensile)	APPLICABLE STANDARD
Force: 0,05 N to 10KN Example - Insert test: Contact Retention; Contact insertion and removal forces; Maintenance aging; Insert Retention; Gage location and retention; Insertion and removal tool abuse; Installing/removal tool abuse; Probe Damage; Insert bond strength; Insert grommet bonding; Retention of the insulation in the casing;	Standard which we are specialist: EIA-364-05; EIA-364-24; EIA-364-35; EIA-364-25; EIA-364-29; VG95328; VG96929; VG95319-2; VG95234; MIL-DTL-26482; MIL-DTL-38999; MIL-DTL-26482; MIL-DTL-38999; AFNOR NF 61-030
Example -Contact & crimp test: Contact engaging and separating forces; Withdrawal force of the individual contact; Tensile Strength: Crimp tensile strength; Pull Out force; Tensile force	SAE AS39029; EIA-364-29; MIL-DTL-26482; VG95328; VG96929; VG95319-2; VG95234; EIA-364-08.
Example - External bending moment - Crush	MIL-DTL-26482; AS95234; SAE AS5015; MIL-DTL-38999
TORQUE FORCE	APPLICABLE STANDARD
Force: 0,1 Nm to 100 Nm Example: Mating - Un-mating force ; Coupling and uncoupling torque	Standard which we are specialist: EIA-364-13; EIA-364-114; MIL-DTL-26482; MIL-DTL-38999; VG95328; VG96929; VG95351; VG96934; VG95319-2; VG95234; AFNOR NF F 61-030
RELEASE MECHANISM MACHINE	APPLICABLE STANDARD
Acceleration: 3m/s ² Lanyard: Pull-separation; Fail-safe disengagement	Standard which we are specialist: MIL-DTL-38999/31
LEAKAGE TEST	APPLICABLE STANDARD
Watertightness (up to 50BAR) Oil Leakage (up to Up to 150 Bar)	Standard which we are specialist: VG95234; VG95328; VG96929; VG95351; VG96934; VG95319-2; IEC 60068-2-17; EN 60529 IPX7-IPX8; MIL-DTL-26482
Air Leakage (up to 4 Bar)	Standard which we are specialist: EIA-364-02; VG95328; MIL-DTL-26482 ; DIN EN 60068-2-17 Qa
Helium leakage	Standard which we are specialist: MIL-STD-202 TEST METHOD 112; IEC60068-2-17 QK
MISCELLANEOUS	
Visual & Dimensional evaluation - Crimp: Examination on wired samples - durability - Impact - Marking Test - Solderability	

Controlled vibration and shock testing ensures electrical and electronic components can withstand specified forms of dynamic stress encountered during operation and shipping.

Available Tests:

- Vibration sine
- Vibration random
- Bump
- Shock



METROLOGY

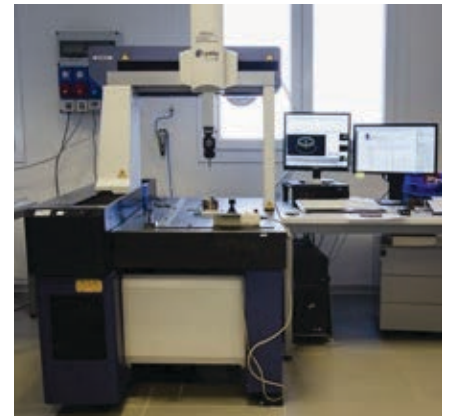
DIMENSIONAL INSPECTION		
INSTRUMENT		ACCURACY
Visual Inspection	Microscope	Magnification X1000
Optical 3D measurement	Tesa Visio 300 DCC	(measuring range) X/Y=300X200mm (measuring range) Z=150mm X/Y-Accuracy at 20°C=2,4+4•L/1000Z- Accuracy at 20°C= 3+1•L/100*
Contour Measuring Instrument	Mitutoyo CV 4500S4	DZ1 axis=0,02um DX AXIS=0,05um (measuring range) Xaxis=0-100mm (measuring range) Z1 axis=0-60mm
Optical - Profile projector	Visual scope 300V	0-100mm D=0,001mm
Coordinate Measuring Machine CMM	Tesa Micro-Hite 3D	440 x 500 x 420 mm D=0,001mm
	Mitutoyo Crysta Apex-C	500x700x400mm D=0,001mm
Standard instrument	Height gauge	0-600mm D=0,001mm
	Caliper	0-600mm D=0,01mm
	Micrometer	0-150mm D=0,001mm
	Gauge	Thread, Dial, Bore, Johansson
METALLOGRAPHIC SECTION		
Sample preparation; potting of the sample, cross sectioning; measurement with microscope	NIKOM LV150NL (1000x)	D=0,01µm
CALIBRATION OF THREAD GAGE OR GAUGE BLOCK		
INSTRUMENT		ACCURACY
Thread measurement	DMS680	0-100mm D=0,0001mm
Inspection of plain plug and plain ring gage; Gauge block.		
Inspection of thread plug, thread ring		
HARDNESS TESTER		
INSTRUMENT		ACCURACY
Measure of metal hardness, VICKERS (HV)	Hardness tester Innovatest	HV0,02-HV50 D=0,1Hv
SURFACE ROUGHNESS TESTER		
INSTRUMENT		ACCURACY
Measure of roughness	Surtronic S128 Taylor-Hobson	D=0,01µm +/-500µm

Measurement Solutions Capabilities

ACCURACY: All our instruments are calibrated and evaluated for the most accurate measurement of your components

FLEXIBILITY: We measure and report on all components or just a single characteristic

CAPABILITIES : From calibration of customer's gauge tools to the design and manufacture of specialized gauges or fixtures.

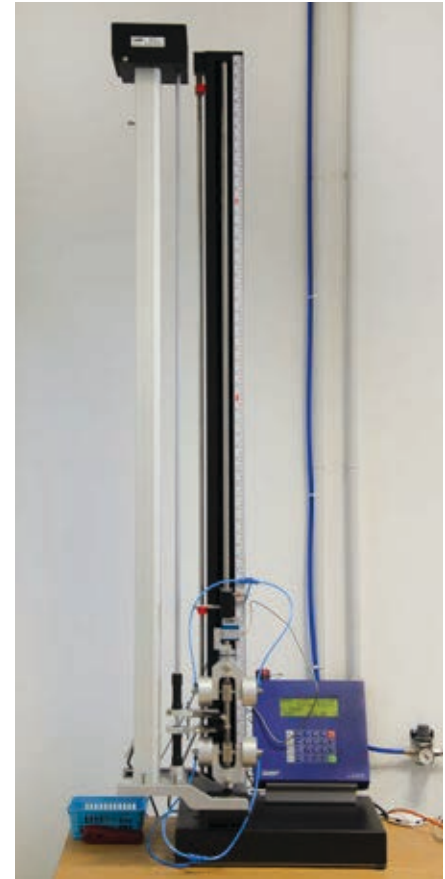
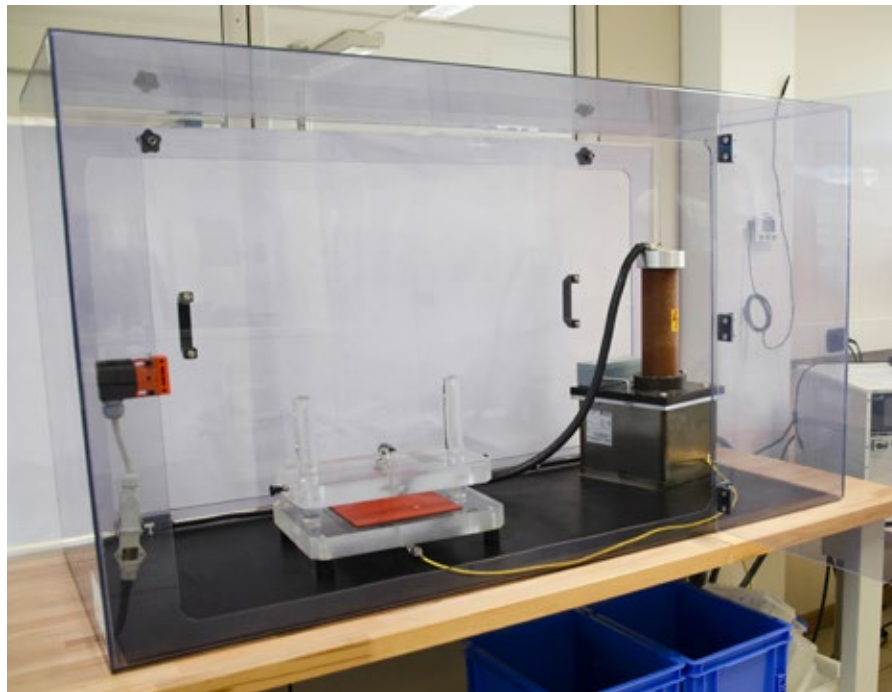


Inspection Rubber

RUBBER

RUBBER - PLASTIC MATERIAL INSPECTION		
INSTRUMENT		LEVEL
Control on batch formulation	Agilent Cary 630 FTIR spectrometer	400-4650cm ⁻¹ D=4cm ⁻¹
Hardness measurement	Rupac Durometer Shore A 6110075	0-90ShoreA D=1ShoreA
Measure elongation at break and tensile strength	EXpert 7601 XLT D412 Tension Testing System	0-1000N D=0,01N
Density measurement	PCE-ABZ + Density determination kit	0-200g D=0,0001g
Compression set measurement	Gibitre C-Set	N/A
Dielectric Breakdown Voltage and Dielectric Strength (ASTM D149)	High voltage Tester Phenx 6CP50/10-3; Schleich GLP2	0-50KVAC 50-60Hz
Standard Test Methods for DC Resistance or Conductance of Insulating Materials (ASTM D257)	Megohmmeter Sefelec M1501M	0-1500VDC

We have all the instruments to make a characterization of rubber materials: formulation (FTIR), density, hardness, mechanical propriety, and electrical propriety.

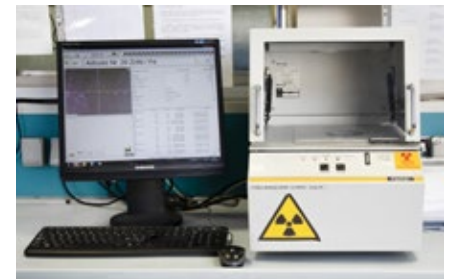


Inspection Plating

PLATING

PLATING INSPECTION		
INSTRUMENT		LEVEL
Metallic coatings thickness; Elemental composition of coatings	X-ray fluorescence spectroscopy (Fischerscope X-Ray XULM)	0-12,5um D=0,01um
Measure of the plating thickness (preparation of the samples; potting of the sample, cross sectioning; measure with microscope)	NIKOM LV150NL (1000x)	D=0,01um
Nonconductive coatings thickness (cataphoresis, painting) on non-ferrous metals, iron or steel	Magnetic inductive/Eddy current measurement instrument (Dualscope FMP20)	0-800um D=0,01um
Elemental composition of metal alloys/solutions	ICP-OES (Agilent 5110)	ppb
Copper sulfate test	N/A	N/A
Elemental composition of plating bath solutions	AAS (PerkinElmer PinAAcle 900T)	ppm

Our chemical plating lab can analyze your coating and help to ensure the correct formulation of the galvanic bath.



Inspection Harness

HARNESS

AUTOMATIC MEASUREMENT		
TEST	INSTRUMENT	LEVEL
Insulation resistance	EST AUTES750; WEETECH W434; WEETECH W454	up to 5000VAC;
Dielectric withstanding voltage		up to 1500VDC - 100GOHM
Resistance		Res.1mohm

MANUAL MEASUREMENT		
Insulation resistance	Megaohmmeter	I.R.:up to 1500VDC - 1Tohm
Dielectric withstanding voltage	High voltage tester	DWV: up to 1200VAC
Resistance	Ohmmeter	Resolution 0,001mohm
LC measurement (Inductance ; Capacitance)	Fluke PM6304	C=0,00pF to 31,8F; L=0,00uH to 63KH
Power Generator	Power generator DC and AC	up to 140VDC / 260VAC
Oscilloscope	Tektronix MSO5054	500MHz & 10 GS/s
Insertion loss (multimode - single mode)	Optical source, optical power meter, OTDR	850-1310-1550nm
Return loss (multimode - single mode)		850-1300-1310-1550
OTDR - Optical Time Domain Reflectometer		850/1300/1310/1550 nm
Ethernet	Fluke DSX5000	Up to Cat Fa (7a)
Air Leakage automatic	Fortest	Up to 6 Bar / 0,001mBar loss
Air Leakage manual	Manual pump	Up to 250 Bar
Air Flow	Air Flow meter Baggi	Up to 30 Standard litre per minute
Helium leakage	ASM340 Pfeiffer	5.10-12 mbar.l/s

Our harness final inspection guarantees fast and accurate testing of your wire harnesses with the latest automatic test equipment.



MILITARY-GRADE

Ruggedized ground, sea, and air solutions for military equipment and vehicles



In-house Tin-Zinc alternative to Cad plating for VG connectors

SUPERSEAL™ FIELD RJ45 AND USB SOLUTIONS



MIL-DTL-5015 type reverse-bayonet RJ45

MIL-DTL-5015 type reverse-bayonet USB

Wide range of wire terminations

MIL-DTL-26482 SERIES I TYPE AND DERIVATIVES



Stainless steel configurations

Marine bronze solutions

Special EMI filter and hermetic designs

GLASS-SEALED
Hermetic
CONNECTORS

ARCTIC-GRIP RUBBER OVERMOLDED SOLUTIONS



Fully tooled and available for the wide range of Glenair BLQ M-Grade connector solutions

VG96929 SINGLE-POLE POWER



VG-qualified and Glenair BLQ signature solutions

INTEGRATED / WIRED JUNCTION BOXES



High-speed Ethernet and other custom solutions



MISSION-CRITICAL INTERCONNECT SOLUTIONS

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