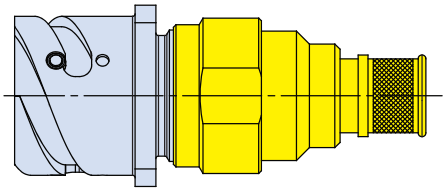
RJ45 CAT 5E ETHERNET

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.

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

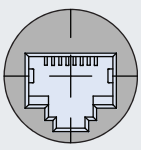
HEAT SHRINK BOOT P/N : 770-004S903W2

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**

Rear RJ45 Jack



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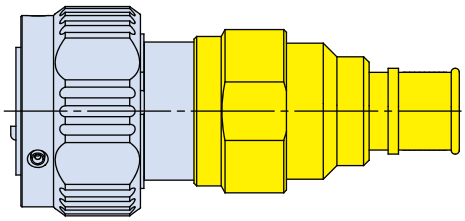
Super ITS - RJ45 SuperSeal™ Rugged Field Connectors

Environmental, shielded, reverse-bayonet connectors

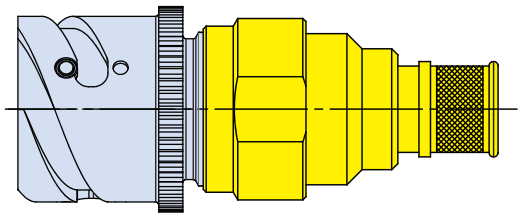
SHELL STYLE 06: PLUG AND ADAPTER WITH CABLE SHIELD TERMINATION AND SHRINK BOOT GROOVE



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**

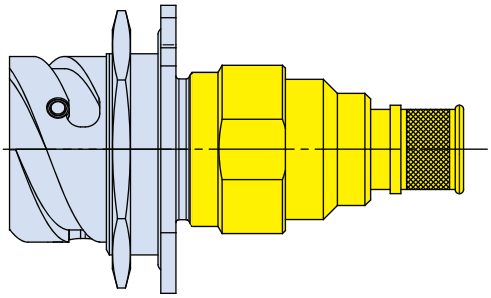
SHELL STYLE 01: INLINE RECEPTACLE WITH ACCESSORY THREADS



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**

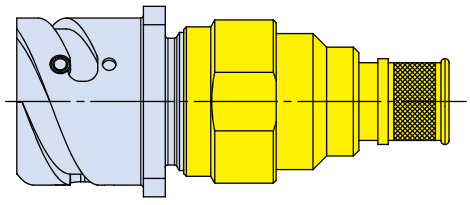
SHELL STYLE 070: REAR PANEL MOUNT JAM-NUT RECEPTACLE WITH ACCESSORY THREADS



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**

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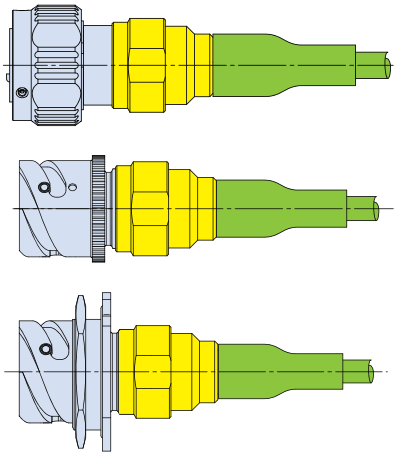
RJ45 CAT 5E ETHERNET

Super ITS - RJ45 SuperSeal™ Rugged Field Connectors

Environmental, shielded, reverse-bayonet connectors



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	**0.5** = .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.

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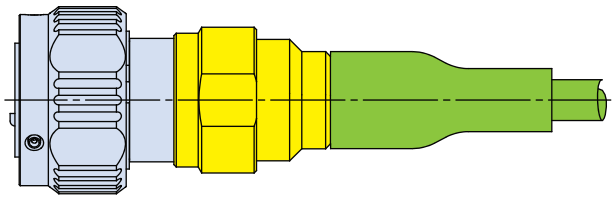
Super ITS - RJ45 SuperSeal™ Rugged Field Connectors

Environmental, shielded, reverse-bayonet connectors

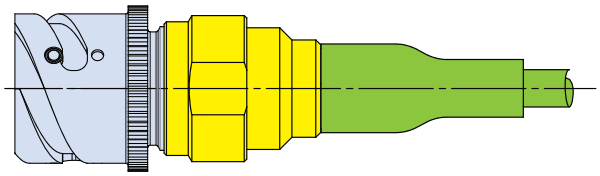
SHELL STYLE 06: PLUG ASSEMBLY WITH TERMINATED SHIELDED CABLE PIGTAIL AND HEAT SHRINK BOOT



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**

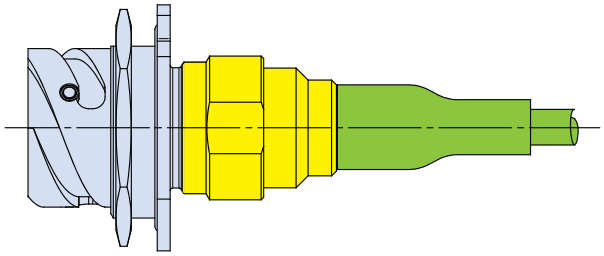
SHELL STYLE 01: INLINE RECEPTACLE ASSEMBLY WITH TERMINATED SHIELDED CABLE PIGTAIL AND HEAT SHRINK BOOT



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

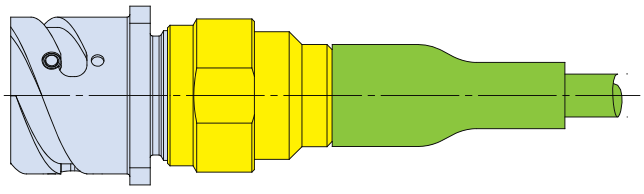
SHELL STYLE 070: REAR PANEL MOUNT JAM-NUT RECEPTACLE WITH TERMINATED SHIELDED CABLE PIGTAIL AND HEAT SHRINK BOOT



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

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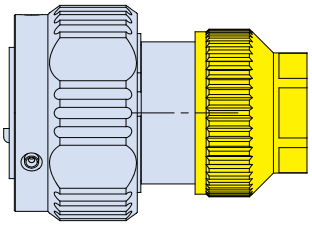
RJ45 CAT 5E ETHERNET

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.

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							

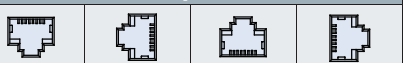
Connector Shell Styles	
Code	Description
030	Rear panel mount, wall mount receptacle with through-mount holes
01	In-line receptacle
070	Rear panel mount, jam-nut receptacle
06	Plug

RJ45 Orientation Options

Plugs

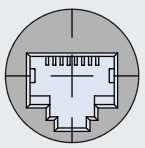
Code 1	Code 2	Code 3	Code 4

Receptacle



Code 1	Code 2	Code 3	Code 4

Rear RJ45 Jack



Plug and receptacle rear termination view

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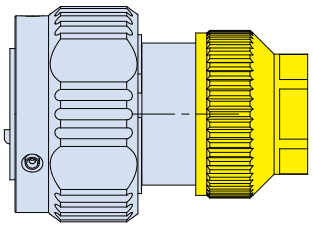
Super ITS - RJ45 SuperSeal™ Rugged Field Connectors

Environmental, shielded, reverse-bayonet connectors

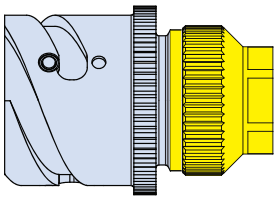
SHELL STYLE 06: PLUG AND INTERNAL THREADED BACKHSHELL



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

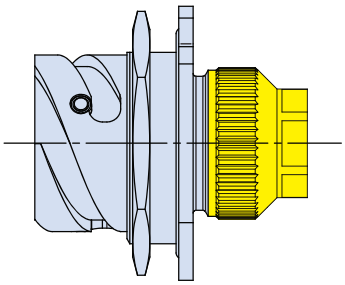
SHELL STYLE 01: INLINE RECEPTACLE AND INTERNAL THREADED BACKHSHELL



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

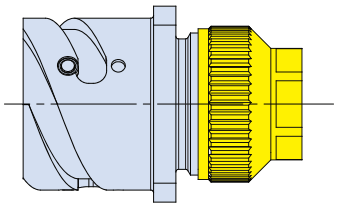
SHELL STYLE 070: REAR PANEL MOUNT, JAM-NUT RECEPTACLE AND INTERNAL THREADED BACKHSHELL



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 BACKHSHELL



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

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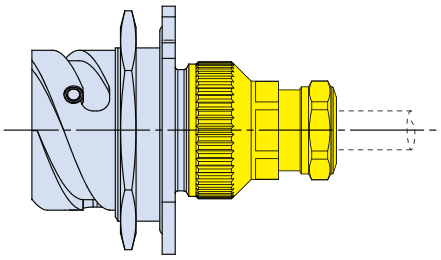
RJ45 CAT 5E ETHERNET

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.

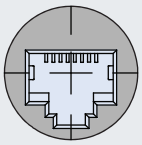
Performance Specifications	
Material and Finish	
Material/Finish	See How to Order table
RJ45 Coupler Housing	UL94V-0 Compliant ABS or PPS
Grommet, Peripheral Seal, Interfacial Seal, O-ring	Blended fluorosilicone/ silicone elastomer, 30% silicone per ZZ-R-765, 70% fluorosilicone per MIL-R-25988
Shielding 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**

Rear RJ45 Jack

Plug and receptacle rear view

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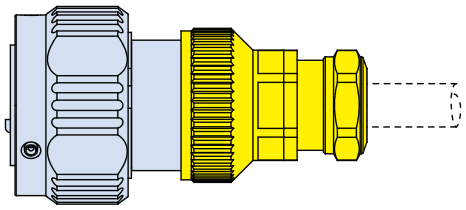
Dimensions in millimeter (inches) are subject to change without notice.

Super ITS - RJ45 SuperSeal™ Rugged Field Connectors

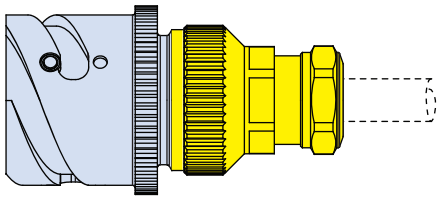
Environmental, shielded, reverse-bayonet connectors

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



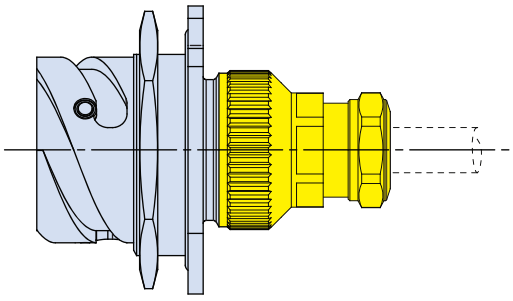
Sample Part Number								
ITS300H	06	G	18	5E	1	MS1	0.5	F7
Series	Shell Style	Ground Omit for none	Shell Size	Cable Type	RJ45 Position 1, 2, 3, 4	Back-shell M1, M2, MS1 or MS2	Cable Length .5 = .5 M	Material / Finish G3 (omit) FG, F7, F11

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



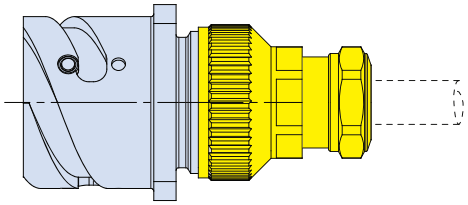
Sample Part Number								
ITS300H	01	G	18	5E	1	MS1	0.5	F7
Series	Shell Style	Ground Omit for none	Shell Size	Cable Type	RJ45 Position 1, 2, 3, 4	Back-shell M1, M2, MS1 or MS2	Cable Length .5 = .5 M	Material / Finish G3 (omit) FG, F7, F11

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

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



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

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