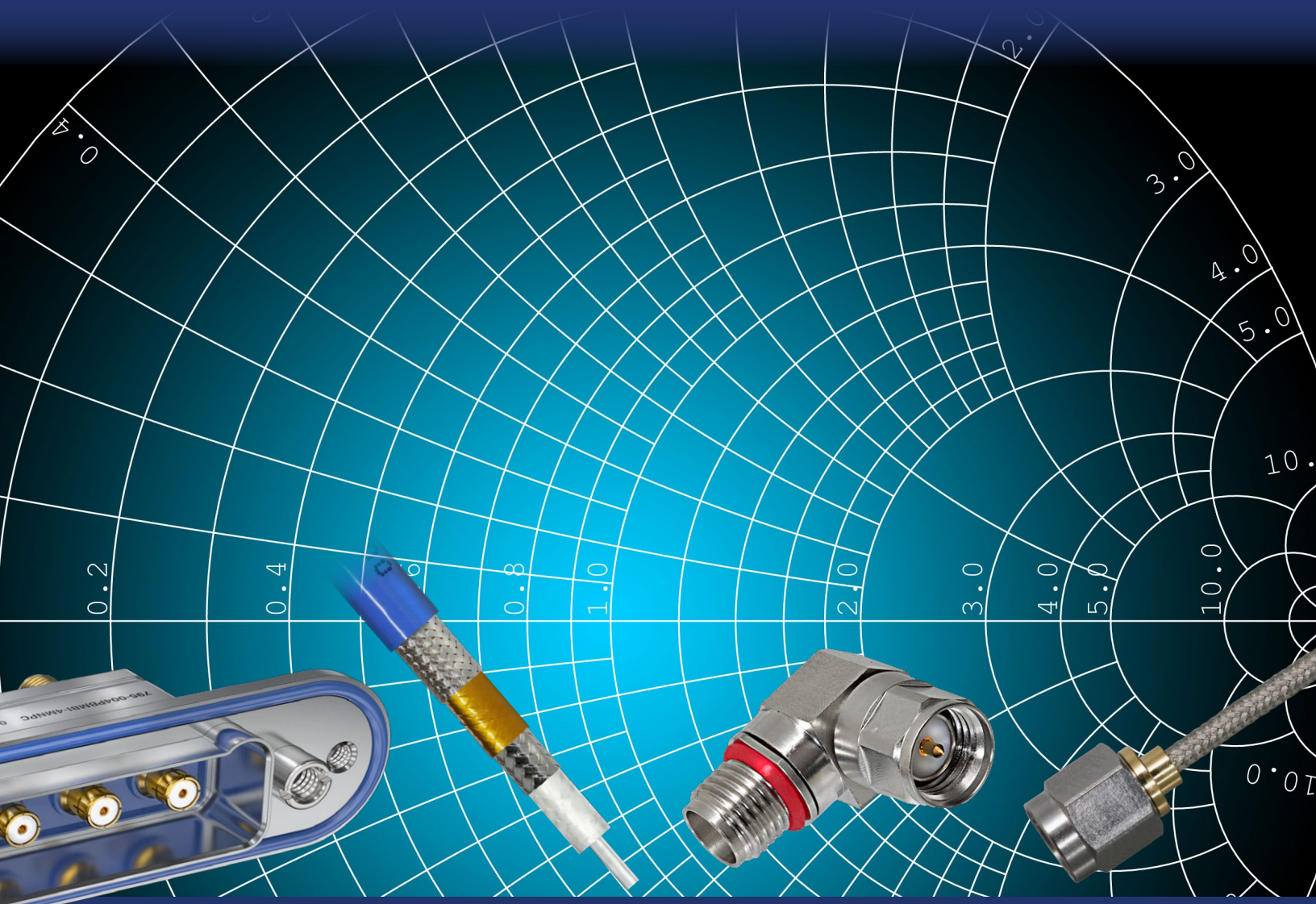
MISSION-CRITICAL

INTERCONNECT SOLUTIONS

Glenair®



G-LinkRF

RF, Microwave, and mmWave Interconnects

Integrated RF Transmission Line Assemblies built from Glenair Signature Connectors, Contacts, Adapters, and Coax Cable

MAY 2023

MIL-AERO GRADE

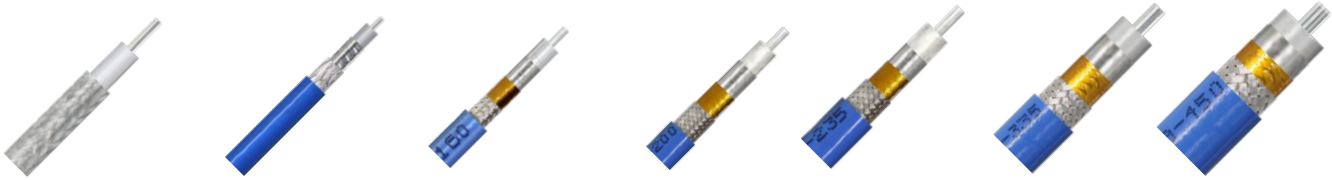
HIGH-FREQUENCY RF TRANSMISSION LINE ASSEMBLIES

Turnkey RF and Microwave Transmission Line Assemblies Built with Glenair Multi-Port Connectors, Low-Loss Cables and High-Frequency Contacts

Glenair is one of just a few interconnect manufacturers that can supply turnkey RF transmission line assemblies—fully connectorized and ready for immediate use—built 100% in-house with Glenair component parts. Glenair high-frequency RF assemblies are typically used in line-replaceable units and chassis that are part of an RF data transmission chain. The rugged, environmental construction of Glenair multi-port RF connector shells and contacts, combined with our dimensionally-stable BluMark RF coax cables, makes these turnkey transmission line solutions ideal for mission-critical air, sea, land and space applications with exacting size, weight, and frequency requirements.

BLUMARK RF COAX CABLES

GLENAIR TURNKEY RF ASSEMBLIES ARE BUILT WITH AEROSPACE-GRADE 50 OHM LOW-LOSS COAX CABLES



Size 047	Size 086	Size 160	Size 200	Size 235	Size 300	Size 450
26.5 GHz hand-formable tin-soaked braid	40 GHz FEP or ETFE jacket	18 and 40 GHz, with FEP or ETFE jacket, Low Phase Change	26.5 GHz FEP or ETFE jacket triple shield	18 GHz, FEP or ETFE jacket triple shield	18 GHz, FEP jacket triple shield	10 GHz, FEP jacket triple shield

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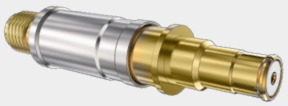
COAX CONTACTS

Series 852 Coax Contacts
For Multi-Port Mil/Aero Connectors

Series 852 Coax Contacts for multi-port military/aerospace connectors. 50 ohm and 75 ohm. Contacts snap into rear-release Glenair Series 23 SuperNine, Series 80 Mighty Mouse, Series 795 Micro-Crimp, and Series 806 RF connectors. Consult factory for use with MIL-DTL-38999 connectors.

Available in sizes 8, 12, and 16, these contacts are compatible with popular "RG" coax cable sizes. Spring-loaded versions offer low insertion loss when used with high frequency flexible microwave and mmWave cables.

G-LinkRF



18 GHz G-LinkRF contacts have a BMB-style mating end and a female SMA interface on the back end. Compatible with MIL-DTL-38999 and other connectors with size 8 rear-release contact arrangements.

#8
Sr. 23 SuperNine
Series 80
(MIL-DTL-38999, consult factory)

G-LinkRF

50 Ohm
18 GHz
852-157
852-158
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50 Ohm
6 GHz
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852-042, -043
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50 Ohm
12 GHz
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75 Ohm
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75 Ohm
12 GHz
852-119
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#8
Series 795
Series 806 RF

G-LinkRF

50 Ohm
18 GHz
852-256
852-157
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50 Ohm
6 GHz
852-148
852-149
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50 Ohm
18 GHz
852-152
852-071
Page 10

75 Ohm
4 GHz
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852-151
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#12
SuperNine
Series 795
Series 806 RF

50 Ohm
3 GHz
852-015, -016, -017
852-018, -019, -037
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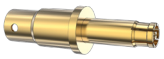

50 Ohm
40 GHz
852-099, -100
852-154
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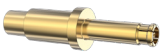
75 Ohm
3 GHz
852-103, -104
852-106
Page 14

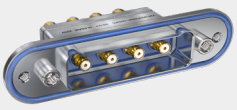
#16
SuperNine
Series 795
Series 806 RF

50 Ohm
4 GHz
852-130, -131
852-251
Page 15



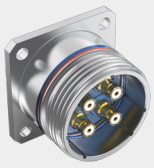
50 Ohm
65 GHz
852-133, -134
852-159
Page 16

GLENAIR SIGNATURE MULTI-PIN CONNECTORS FOR RF/MICROWAVE APPLICATIONS

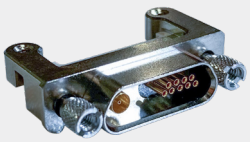


SERIES 795 RF
Series 795

SuperNine
Series 23



SERIES 806 MIL-AERO
Series 806 RF

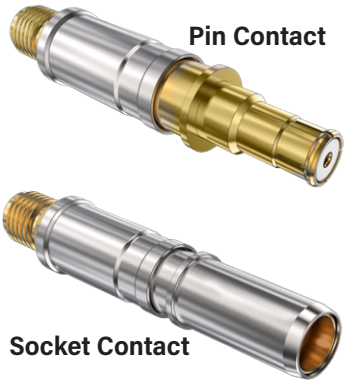


GMMD
Series GMMD

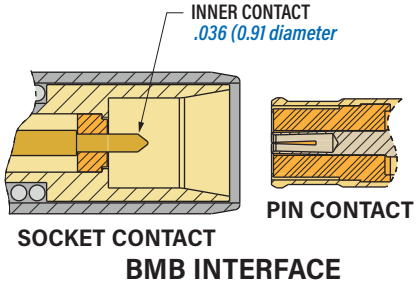
852-157
852-158

- Size 8
- 50 Ohm
- 18 GHz BMB Style
- G-LinkRF
- Female SMA Adapter
- Integral Release Sleeve

G-LinkRF



SMA adapter. 18 GHz. 50 ohm. Size 8. Snap-in, rear release coax contacts fit Glenair Series 80 Mighty Mouse connectors, Glenair Series 23 SuperNine and MIL-DTL-38999 connectors with size 8 contact cavities. BMB-style contact features G-LinkRF female SMA adapter and integral release sleeve. Attach male SMA plug directly to contact, no soldering required. 50 ohm nominal impedance. DC – 18 GHz frequency range.



PART NUMBER

Pin Contact	Socket Contact
852-157	852-158

CONNECTOR COMPATIBILITY

- **MIL-DTL-38999**
  with size 8 contact cavities
- **Series 233 SuperNine**
  with size 8 contact cavities
- **Series 80 Mighty Mouse**
  with size 8 contact cavities

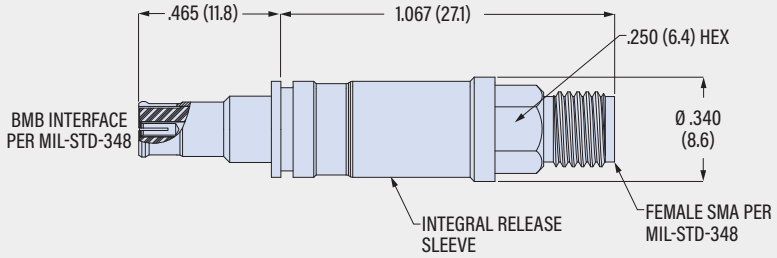
CONSTRUCTION

- **Center contact:** copper alloy, gold over nickel plating
- **Dielectric:** fluoropolymer
- **SMA Body:** copper alloy, gold over nickel plating
- **Front Body:** copper alloy, gold over nickel plating
- **Socket contact outer sleeve:** SST, passivated
- **Pin contact spring:** SST, passivated
- **Integral release sleeve:** SST, passivated

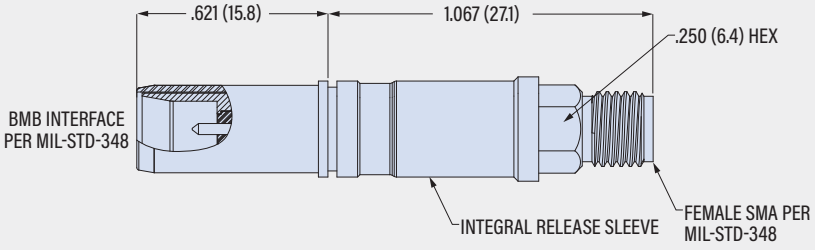
SPECIFICATIONS

- **Dielectric withstanding voltage:** 1000 Vac rms
- **Frequency range:** DC – 18 GHz
- **VSWR:** 1.45 maximum
- **Impedance:** 50 ohm nominal

852-157 PIN CONTACT



852-158 SOCKET CONTACT



852-030 852-042 852-031 852-043

- Size 8
- 50 Ohm
- 6 GHz
- Solder + Crimp Termination

50 ohm. 6 GHz. Size 8. Snap-in, rear release coax contacts fit Glenair Series 80 Mighty Mouse connectors, Glenair Series 23 SuperNine and MIL-DTL-38999 connectors with size 8 contact cavities. 50 ohm nominal impedance. DC – 6 GHz frequency range. Inner contact is solder type, shield termination is crimp type. Supplied as unassembled kit with instruction sheet.

PART NUMBER

Coax Cable	Pin Part Number With Sealing Boot	Pin Part Number No Sealing Boot	Socket Part Number With Sealing Boot	Socket Part Number No Sealing Boot	A Hex Crimp in	A Hex Crimp mm
M17/152-00001 *(RG316-DS)*	852-031-01F	852-031-01	852-030-01F	852-030-01	.128	3.3
M17/113-RG316	852-031-02F	852-031-02	852-030-02F	852-030-02	.128	3.3
M17/060-RG142 M17/128-RG400 962-009-200 *(Glenair)*	852-031-03F	852-031-03	852-030-03F	852-030-03	.218	5.5
M17/28-RG58	852-031-04F	852-031-04	852-030-04F	852-030-04	.218	5.5
M17/220-0001	852-043F	852-043	852-042F	852-042	.213	5.4

CONNECTOR COMPATIBILITY

- **MIL-DTL-38999** *with size 8 contact cavities*
- **Series 233 SuperNine** *with size 8 contact cavities*
- **Series 80 Mighty Mouse** *with size 8 contact cavities*

CONSTRUCTION

- **Center contact, body, retainer, clamp nut:** copper alloy, gold over nickel plating
- **Dielectrics:** fluoropolymer
- **Sealing boot:** fluorosilicone rubber, glass-filled thermoplastic

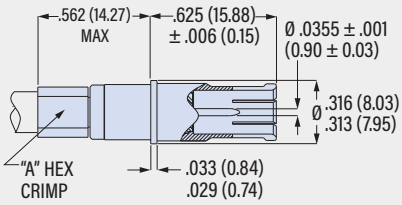
SPECIFICATIONS

- **Operating temperature:** -65 °C to +200 °C
- **VSWR:** 1.25:1 max. @ 6 GHz
- **Impedance:** 50 ohm nominal
- **Dielectric withstanding voltage:** 1300 Vac rms at sea level, 250 Vac at 50,000 feet
- **Current rating:** 1 ampere
- **Durability:** 500 mating cycles

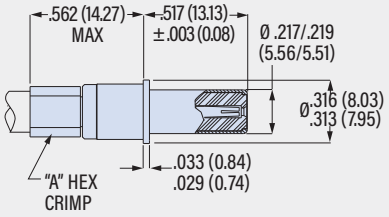
REMOVAL TOOL

859-022
(M81969/14-06)

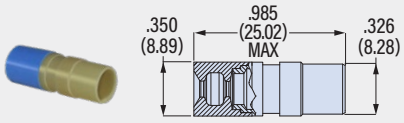
852-030, 852-042 SOCKET



852-031, 852-043 PIN



SEALING BOOT



Slide boot over cable, rubber end first, before terminating cable to contact. Install wired contact into connector, then slide boot into connector grommet to provide moisture seal.

Part Number	Cable Range
859-042-01	.090/.130 (2.3/3.3)
859-042-02	.130/.170 (3.3/4.3)
859-042-03	.170/.205 (4.3/5.2)

CRIMP TOOLS

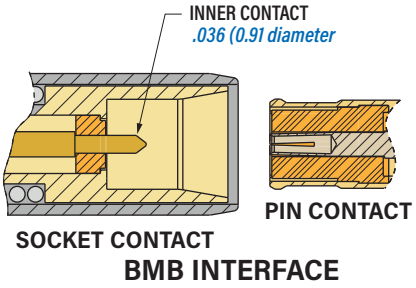
Center contact is solder termination, no crimp tool is necessary. Terminate cable braid to contact with crimp tool and hex die set.

Tool	Part Number
Crimp Tool	809-129 (M22520/5-01)
Die Set, .128 Hex	809-130 (M22520/5-03)
Die Set, .213 Hex	859-051 (M22520/5-05)
Die Set, .218 Hex	859-007 (M22520/5-45)

852-070
852-071

- Size 8
- 50 Ohm
- 18 GHz
- BMB Style
- Spring-Loaded
- Solder Termination

18 GHz. Spring-loaded BMB interface. 50 ohm. Size 8. Snap-in, rear release coax contacts fit Glenair Series 80 Mighty Mouse connectors, Glenair Series 23 SuperNine and MIL-DTL-38999 connectors with size 8 contact cavities. 50 ohm nominal impedance. DC – 18 GHz frequency range. Solder termination. Consult factory for optimal connector selection.



PART NUMBER

Coax Cable	Pin Contact	Socket Contact
RG-402 Flex **962-010-402** (*Glenair*)	852-071-01	852-070-01
M17/60-RG142	852-071-02	852-070-02
LL142 (*Harbour Industries*) **962-009-200** (*Glenair*)	852-071-03	852-070-03
LMR-240 (*Times Microwave*) **7808** (*Belden*)	852-071-04	852-070-04
RG-405 Flex **962-010-405** (*Glenair*)	852-071-05	852-070-05
047 Flexible **962-014-047** (*Glenair*)	852-071-06	852-070-06
HP120s (*Semflex*) **962-008-120** (*Glenair*)	852-071-07	852-070-07
962-009-160 (*Glenair*)	852-071-08	852-070-08
962-009-235 (*Glenair*)	852-071-09	852-070-09

CONNECTOR COMPATIBILITY

- **MIL-DTL-38999**
  with size 8 contact cavities
- **Series 233 SuperNine**
  with size 8 contact cavities
- **Series 80 Mighty Mouse**
  with size 8 contact cavities

Consult factory for contact / connector compatibility

CONSTRUCTION

- **Center contact, body:** copper alloy, gold over nickel plating
- **Dielectric:** fluoropolymer
- **Socket contact outer sleeve:** SST, passivated
- **Socket contact spring:** SST, passivated
- **Sealing boot:** fluorosilicone rubber grommet, glass-filled thermoplastic follower

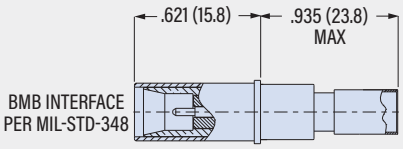
SPECIFICATIONS

- **Operating temperature:** -55 °C to +125 °C
- **Dielectric withstanding voltage:** 1000 Vac rms
- **Frequency range:** DC – 18 GHz
- **VSWR:** DC – 1 GHz: 1.10:1. Above 1 GHz: 1.20 + .025 (freq GHz)
- **Impedance:** 50 ohms
- **Insertion loss:** .05 dB @ 400 MHz, above 1 GHz: 0.06 x √(Freq in GHz)
- **Durability:** 500 mating cycles

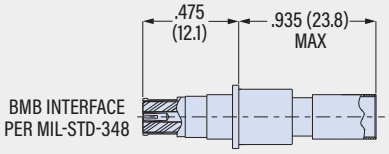
REMOVAL TOOL

859-022
(M81969/14-06)

852-070 SOCKET CONTACT

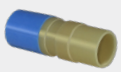


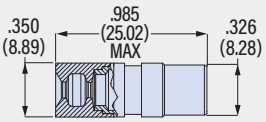
852-071 PIN CONTACT



SEALING BOOT

Included with 852-070 and 852-071 contacts. Slide boot over cable, rubber end first, before terminating cable to contact. Install wired contact into connector, then slide boot into connector grommet to provide moisture seal.





Part Number	Cable Range
859-042-01	.090/.130 (2.3/3.3)
859-042-02	.130/.170 (3.3/4.3)
859-042-03	.170/.205 (4.3/5.2)

Dimensions in Inches (millimeters) are subject to change without notice.

Coax Contacts

For Multi-Port Military/Aerospace Connectors

852-056 852-082
852-057 852-083

- Size 8
- 75 Ohm
- Crimp Termination
- 4 GHz

Low loss. 75 ohm. Size 8. Snap-in, rear release coax contacts fit Glenair Series 80 Mighty Mouse connectors, Glenair Series 23 SuperNine and MIL-DTL-38999 connectors with size 8 contact cavities. 75 ohm nominal impedance. DC – 4 GHz frequency range. Crimp termination. Supplied as unassembled kit with assembly instruction sheet.

PART NUMBER

Coax Cable	Pin Part Number: With Sealing Boot	Pin Part Number: No Sealing Boot	Socket Part Number: With Sealing Boot	Socket Part Number: No Sealing Boot	A Hex Crimp: in	A Hex Crimp: mm
V75268, V76261, V73263 *(PIC™ Wire and Cable)*	852-056-01F	852-056-01	852-057-01F	852-057-01	.218	5.5
M17/94-RG179	852-056-02F	852-056-02	852-057-02F	852-057-02	.128	3.3
V78209 *(PIC™ Wire and Cable)*	852-082-01F	852-082-01	852-083-01F	852-083-01	.231	5.9
LMR-240-75 *(Times Microwave)*	NOT AVAILABLE	852-082-02	NOT AVAILABLE	852-083-02	.231	5.9

CONNECTOR COMPATIBILITY

- **MIL-DTL-38999** *with size 8 contact cavities*
- **Series 233 SuperNine** *with size 8 contact cavities*
- **Series 80 Mighty Mouse** *with size 8 contact cavities*

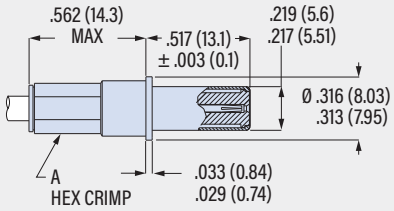
CONSTRUCTION

- **Center contact, body, retainer, clamp nut, ferrule:** copper alloy, gold over nickel plating
- **Dielectrics:** fluoropolymer
- **Sealing boot:** fluorosilicone rubber, glass-filled thermoplastic

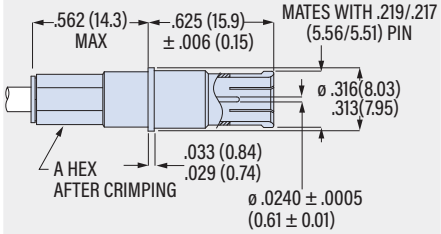
SPECIFICATIONS

- **Operating temperature:** -65 °C to +200 °C
- **VSWR:** 1.25:1 max. @ 4 GHz
- **Impedance:** 75 ohms
- **Dielectric withstanding voltage:** 500 Vac rms at sea level
- **Current rating:** 1 ampere
- **Durability:** 500 mating cycles

852-056, 852-082 PIN



852-057, 852-083 SOCKET



ASSEMBLY TOOLS

Inner Contact

Crimp Tool	Positioner
809-015 (M22520/2-01)	859-072 (M22520/2-37)

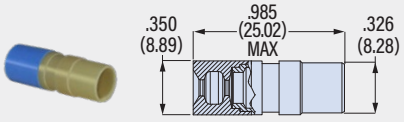
Shield Ferrule

Crimp Tool	Hex Die: .105 and .128 Hex	Hex Die: .218 and .231 Hex
809-129 (M22520/5-01)	809-130 (M22520/5-03)	859-047 (M22520/5-45)

Extraction Tool

859-022 (M81969/14-06)

SEALING BOOT



Slide boot over cable, rubber end first, before terminating cable to contact. Install wired contact into connector, then slide boot into connector grommet to provide moisture seal.

Part Number	Cable Range
859-042-01	.090/.130 (2.3/3.3)
859-042-02	.130/.170 (3.3/4.3)
859-042-03	.170/.205 (4.3/5.2)

Coax Contacts

For Multi-Port Military/Aerospace Connectors

852-119
852-120

- 12 GHz
- Size 8
- 75 Ohm
- Solder+Crimp Termination
- 12G-SDI
- Use with Belden 4855R 4K UHD Video Cable

75 ohm. 12 GHz. Size 8. 4K UHD video. Snap-in, rear release coax contacts fit Glenair Series 80 Mighty Mouse connectors, Glenair Series 23 SuperNine and MIL-DTL-38999 connectors with size 8 contact cavities. 75 ohm nominal impedance. These contacts are designed for use with Belden 4855R 12G-SDI SMPTE cable. DC – 12 GHz frequency range. Center contact is solder termination. Terminate shield with hex crimp. Supplied as unassembled kit with assembly instruction sheet.

PART NUMBER

Coax Cable	Pin Part Number		Socket Part Number	
	With Sealing Boot	No Sealing Boot	With Sealing Boot	No Sealing Boot
4855R *(Belden)*	852-119-01F	852-119-01	852-120-01F	852-120-01

CONNECTOR COMPATIBILITY

- **MIL-DTL-38999** *with size 8 contact cavities*
- **Series 233 SuperNine** *with size 8 contact cavities*
- **Series 80 Mighty Mouse** *with size 8 contact cavities*

CONSTRUCTION

- **Center contact, body, clamp nut, ferrule:** copper alloy, gold over nickel plating
- **Dielectrics:** fluoropolymer
- **Sealing boot:** fluorosilicone rubber, glass-filled thermoplastic

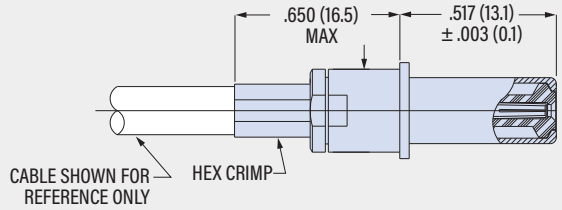
SPECIFICATIONS

- **Operating temperature of Belden cable:** -35 °C to +75 °C
- **Frequency range:** DC – 12 GHz
- **Return loss:** SMPTE ST 2081-1:2015, ST2082-1: 2015
- **Impedance:** 75 ohms
- **Dielectric withstanding voltage:** 500 Vac rms
- **Insulation resistance:** 5000 megohms
- **Durability:** 500 mating cycles

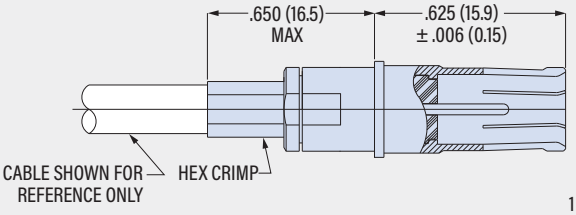
REMOVAL TOOL

859-022
(M81969/14-06)

852-119-01 PIN CONTACT

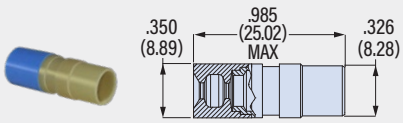


852-120-01 SOCKET CONTACT



1

SEALING BOOT



Slide boot over cable, rubber end first, before terminating cable to contact. Install wired contact into connector, then slide boot into connector grommet to provide moisture seal.

Part Number	Cable Range
859-042-02	.130/.170 (3.3/4.3)

CRIMP TOOLS

Center contact is solder termination, no crimp tool is necessary. Terminate cable shield to contact with crimp tool and hex die set.

Tool	Part Number
Crimp Tool	809-129 (M22520/5-01)
Die Set, .178 Hex	859-051 (M22520/5-05)

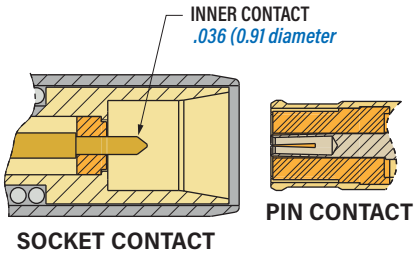
852-256
852-157

- Size 8
- 50 Ohm
- 18 GHz BMB Style
- G-Link*RF*
- Female SMA Adapter
- Integral Release Sleeve

G-LinkRF

G-LinkRF. SMA adapter. 18 GHz. 50 ohm. Size 8. Snap-in, rear release coax contacts fit Glenair Series 795 and Series 806 RF connectors with size 8 contact cavities. BMB-style contact features G-LinkRF female SMA adapter and integral release sleeve. Attach male SMA plug directly to contact, no soldering required. 50 ohm nominal impedance. DC – 18 GHz frequency range.

PART NUMBER	
Pin Contact	Socket Contact
852-157	852-256



CONNECTOR COMPATIBILITY

- **Series 795 connectors** *with size 8 contact cavities*
- **Series 806 RF connectors** *with size 8 RF contact cavities*

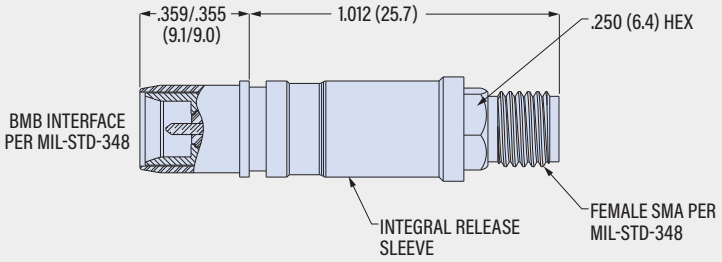
CONSTRUCTION

- **Center contact:** copper alloy, gold over nickel plating
- **Dielectric:** fluoropolymer
- **SMA Body:** copper alloy, gold over nickel plating
- **Front Body:** copper alloy, gold over nickel plating
- **Socket contact outer sleeve:** SST, passivated
- **Socket contact spring:** SST, passivated
- **Integral release sleeve:** SST, passivated

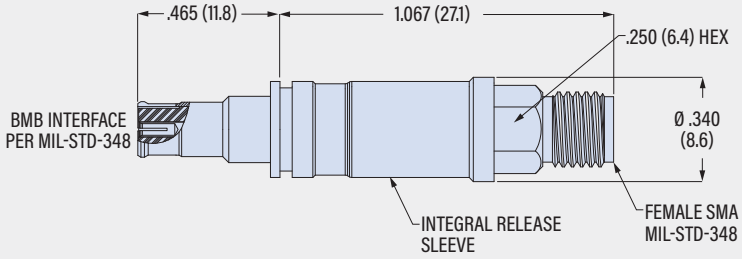
SPECIFICATIONS

- **Operating temperature:** -55 °C to +125 °C
- **Dielectric withstanding voltage:** 1000 Vac rms
- **Frequency range:** DC – 18 GHz
- **VSWR:** 1.45 maximum
- **Impedance:** 50 ohms
- **Durability:** 500 mating cycles

852-256 SOCKET CONTACT



852-157 PIN CONTACT



852-148
852-149

- Size 8
- 50 Ohm
- 6 GHz
- Solder + Crimp Termination
- Fits Series 795, 806 Connectors

Low loss. 50 ohm. Size 8. Snap-in, rear release coax contacts fit Glenair Series 795 and Series 806 connectors with size 8 contact cavities. 50 ohm nominal impedance. DC – 6 GHz frequency range. Inner contact is solder type, shield termination is crimp type. Supplied as unassembled kit with instruction sheet.

PART NUMBER

Coax Cable	Pin Part Number		Socket Part Number		A Hex Crimp	
	With Sealing Boot	No Sealing Boot	With Sealing Boot	No Sealing Boot	in	mm
M17/152-00001 (*RG316-DS*)	852-149-01F	852-149-01	852-148-01F	852-148-01	.128	3.3
M17/113-RG316	852-149-02F	852-149-02	852-148-02F	852-148-02	.128	3.3
M17/060-RG142 M17/128-RG400 962-009-200 (*Glenair*)	852-149-03F	852-149-03	852-148-03F	852-148-03	.213	5.4
M17/28-RG58	852-149-04F	852-149-04	852-148-04F	852-148-04	.213	5.4
M17/220-0001	852-149-05F	852-149-05	852-148-05F	852-148-05	.213	5.4

CONNECTOR COMPATIBILITY

- **Series 795 connectors** *with size 8 contact cavities*
- **Series 806 connectors** *with size 8 contact cavities*

CONSTRUCTION

- **Center contact, body, retainer, clamp nut:** copper alloy, gold over nickel plating
- **Front and rear dielectric:** fluoropolymer
- **Sealing boot:** fluorosilicone rubber, glass-filled thermoplastic

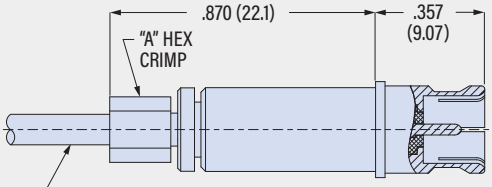
SPECIFICATIONS

- **Operating temperature:** -65 °C to +200 °C
- **VSWR:** 1.25:1 max. @ 6 GHz
- **Impedance:** 50 ohms
- **Dielectric withstanding voltage:** 1300 Vac rms at sea level, 250 Vac at 50,000 feet
- **Current rating:** 1 ampere
- **Durability:** 500 mating cycles

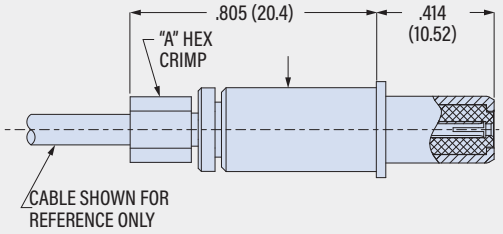
REMOVAL TOOL

859-022
(M81969/14-06)

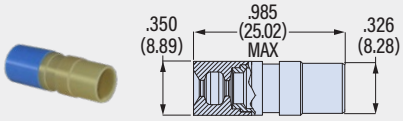
852-148 SOCKET CONTACT



852-149 PIN CONTACT



SEALING BOOT



Slide boot over cable, rubber end first, before terminating cable to contact. Install wired contact into connector, then slide boot into connector grommet to provide moisture seal.

Part Number	Cable Range
859-042-01	.090/.130 (2.3/3.3)
859-042-02	.130/.170 (3.3/4.3)
859-042-03	.170/.205 (4.3/5.2)

CRIMP TOOLS

Center contact is solder termination, no crimp tool is necessary. Terminate cable braid to contact with hand crimp tool and hex die set.

Tool	Part Number
Crimp Tool	809-129 (M22520/5-01)
Die Set, .128 Hex	809-130 (M22520/5-03)
Die Set, .213 Hex	859-051 (M22520/5-05)

852-152
852-071

- Size 8
- 50 Ohm
- 18 GHz BMB Style
- Fits Series 795 RF Connectors
- Spring-Loaded
- Solder Termination

CONNECTOR COMPATIBILITY

- **Series 795 connectors** *with size 8 contact cavities*

CONSTRUCTION

- **Center contact, body:** copper alloy, gold over nickel plating
- **Dielectric:** fluoropolymer
- **Socket contact outer sleeve:** SST, passivated
- **Socket contact spring:** SST, passivated
- **Sealing boot:** fluorosilicone rubber grommet, glass-filled thermoplastic follower

SPECIFICATIONS

- **Operating temperature:** -55 °C to +125 °C
- **Dielectric withstanding voltage:** 1000 Vac rms
- **Frequency range:** DC – 18 GHz
- **VSWR:** 1.45 max.
- **Impedance:** 50 ohms
- **Insertion loss:** .05 dB @ 400 MHz, above 1 GHz: 0.06 x √(Freq in GHz)
- **Durability:** 500 mating cycles

REMOVAL TOOL

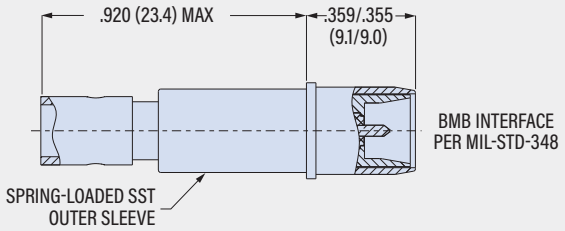
859-022
(M81969/14-06)

18 GHz. Spring-loaded BMB interface. 50 ohm. Size 8. Snap-in, rear release coax contacts fit Glenair Series 795 and Series 806 RF connectors with size 8 contact cavities. 50 ohm nominal impedance. DC – 18 GHz frequency range. Solder termination. Supplied as unassembled kit with sealing boot and instruction sheet.

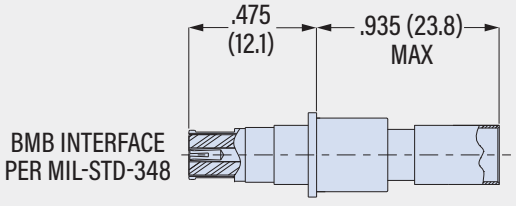
PART NUMBER

Coax Cable	Pin Contact		Socket Contact	
	With Sealing Boot	No Sealing Boot	With Sealing Boot	No Sealing Boot
RG-402 Flex **962-010-402** *(Glenair)*	852-071-01F	852-071-01	852-152-01F	852-152-01
M17/60-RG142	852-071-02F	852-071-02	852-152-02F	852-152-02
LL142 *(Harbour Industries)* **962-009-200** *(Glenair)*	852-071-03F	852-071-03	852-152-03F	852-152-03
LMR-240 *(Times Microwave)* **7808** *(Belden)*	852-071-04F	852-071-04	852-152-04F	852-152-04
RG-405 Flex **962-010-405** *(Glenair)*	852-071-05F	852-071-05	852-152-05F	852-152-05
047 Flexible **962-014-047** *(Glenair)*	852-071-06F	852-071-06	852-152-06F	852-152-06
HP120s *(Semflex)* **962-008-120** *(Glenair)*	852-071-07F	852-071-07	852-152-07F	852-152-07
962-009-160 *(Glenair)*	852-071-08F	852-071-08	852-152-08F	852-152-08
962-009-235 *(Glenair)*	852-071-09F	852-071-09	852-152-09F	852-152-09

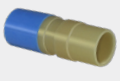
852-152 SOCKET CONTACT

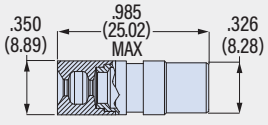


852-071 PIN CONTACT



SEALING BOOT





Part Number	Cable Range
859-042-01	.090/.130 (2.3/3.3)
859-042-02	.130/.170 (3.3/4.3)
859-042-03	.170/.205 (4.3/5.2)

852-150
852-151

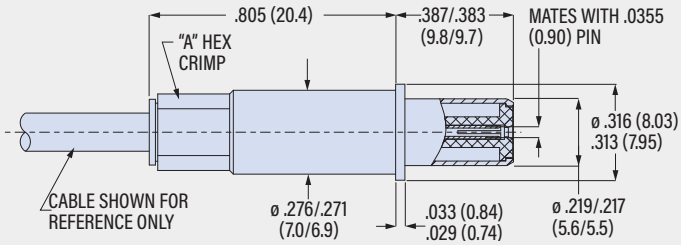
- Size 8
- 75 Ohm
- 4 GHz
- Fits Series 795, 806 RF Connectors
- Crimp Termination

Low loss. 75 ohm. Size 8. Snap-in, rear release coax contacts fit Glenair Series 795 and Series 806 connectors with size 8 contact cavities. 75 ohm nominal impedance. DC – 4 GHz frequency range. Crimp termination. Supplied as unassembled kit with assembly instruction sheet.

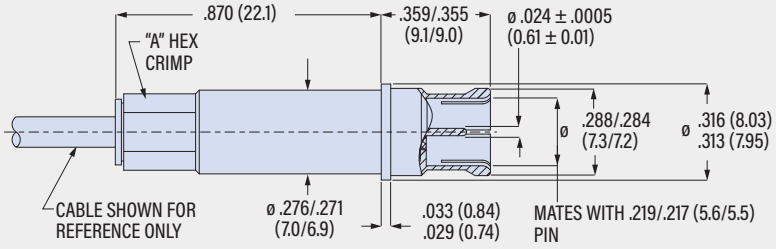
PART NUMBER

Coax Cable	Pin Part Number		Socket Part Number		A Hex Crimp	
	With Sealing Boot	No Sealing Boot	With Sealing Boot	No Sealing Boot	in	mm
V75268, V76261, V73263 *(PIC™ Wire and Cable)*	852-151-01F	852-151-01	852-150-01F	852-150-01	.218	5.3
M17/94-RG179	852-151-02F	852-151-02	852-150-02F	852-150-02	.128	3.3
V78209 *(PIC™ Wire and Cable)*	852-151-03F	852-151-3	852-150-03F	852-150-3	.231	5.9
LMR-240-75 *(Times Microwave)*	NOT AVAILABLE	852-151-4	NOT AVAILABLE	852-150-4	.231	5.9

852-151 PIN CONTACT



852-150 SOCKET CONTACT



CONNECTOR COMPATIBILITY

- **Series 795 connectors** *with size 8 contact cavities*
- **Series 806 connectors** *with size 8 contact cavities*

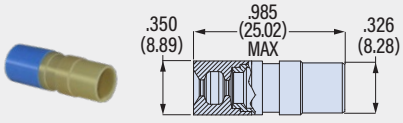
CONSTRUCTION

- **Center contact, body, retainer, clamp nut, ferrule:** copper alloy, gold over nickel plating
- **Dielectrics:** fluoropolymer
- **Sealing boot:** fluorosilicone rubber, glass-filled thermoplastic

SPECIFICATIONS

- **Operating temperature:** -65 °C to +200 °C
- **VSWR:** 1.25:1 max. @ 4 GHz
- **Impedance:** 75 ohm nominal
- **Dielectric withstanding voltage:** 500 Vac rms at sea level
- **Current rating:** 1 ampere
- **Durability:** 500 mating cycles

SEALING BOOT



Slide boot over cable, rubber end first, before terminating cable to contact. Install wired contact into connector, then slide boot into connector grommet to provide moisture seal.

Part Number	Cable Range
859-042-01	.090/.130 (2.3/3.3)
859-042-02	.130/.170 (3.3/4.3)
859-042-03	.170/.205 (4.3/5.2)

ASSEMBLY TOOLS

Inner Contact

Crimp Tool 809-015 (M22520/2-01)

Positioner 859-072 (M22520/2-37)

Shield Ferrule

Crimp Tool 809-129 (M22520/5-01)

Hex Die

.105 and .128 Hex 809-130 (M22520/5-03)

.218 and .231 Hex 859-047 (M22520/5-45)

Extraction Tool

859-022 (M81969/14-06)

Coax Contacts

For Multi-Port Military/Aerospace Connectors

852-015 852-017 852-019
852-016 852-018 852-037

- Size 12
- 50 Ohm
- 3 GHz

Low loss. 50 ohm. Size 12. Snap-in, rear release coax contacts fit MIL-DTL-38999 connectors and Glenair connectors with size 12 contact cavities. 50 ohm nominal impedance. DC – 3 GHz frequency range. 852-015, -016, -019 are crimp termination, 852-017, -018, -037 are solder termination. Supplied unassembled with instruction sheet.

CONNECTOR COMPATIBILITY

- MIL-DTL-38999 Series I, II, III, IV
- Series 790 & 791 Micro-Crimp
- Series 80 Mighty Mouse
- Series 23 SuperNine
- Series 806 Mil-Aero

CONSTRUCTION

- **Center contact, body, ferrule:** copper alloy, gold over nickel plating
- **Dielectric:** fluoropolymer
- **Socket contact hood:** SST, passivated

SPECIFICATIONS

- **Operating temperature:** -65 °C to +200 °C
- **VSWR:** 1.32:1 max. @ 3 GHz
- **Impedance:** 50 ohms
- **Insertion loss:** 0.20 dB maximum at 3 GHz
- **Dielectric withstanding voltage:** 1000 Vac rms at sea level
- **Current rating:** 1 ampere
- **Durability:** 500 mating cycles

ASSEMBLY TOOLS

852-015, 852-016 Inner Contact

Crimp Tool	Positioner
809-128 (MH992)	859-006 (KI721)

852-019 Inner Contact

Crimp Tool	Positioner
809-015 (M22520/2-01)	859-123 (KI457)

852-015, -016, -019 Shield Ferrule

Crimp Tool	Hex Die
809-129 (M22520/5-01)	809-130 (M22520/5-03)

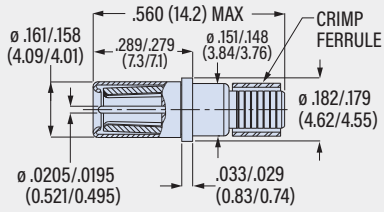
Insertion/Extraction Tool

809-132 (M81868/14-04)

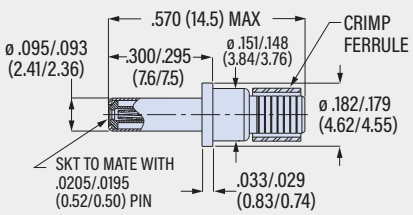
PART NUMBER

Coax Cable	Pin Contact ■ Series 233, 234 ■ Series 790, 791 ■ Series 80 ■ Series 806 ■ M38999 I, II, III, IV	Socket Contact ■ M38999 Series I, III, IV ■ Series 233, 234	Socket Contact ■ Series 790, 791 ■ Series 80 ■ Series 806 ■ M38999 Series II
M17/113-RG316	852-016-01	852-019-01	852-015-01
M17/152-00001 RG316DS	852-016-02	852-019-02	852-015-02
M17-93-RG178	852-016-03	852-019-03	852-015-03
RG405-FLEX 962-010-405 *(Glenair)*	852-018	852-037	852-017

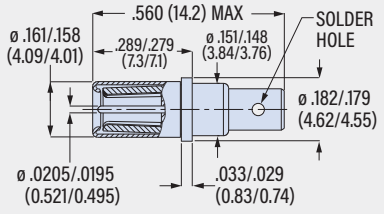
852-015 SOCKET



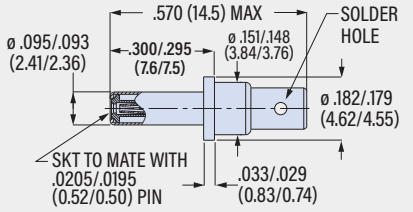
852-016 PIN



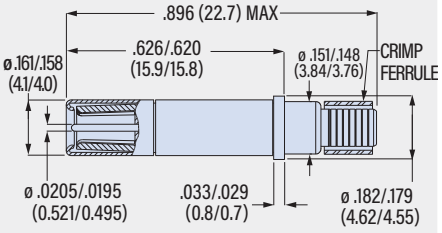
852-017 SOCKET



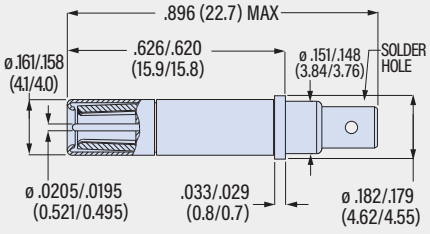
852-018 PIN



852-019 SOCKET



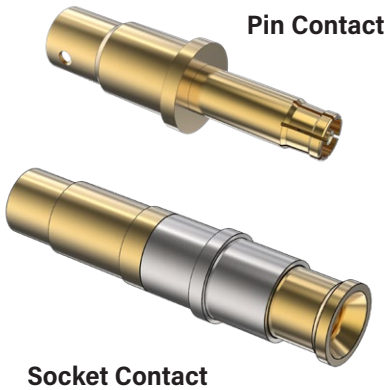
852-037 SOCKET



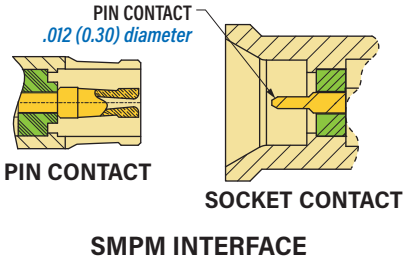
852-099 852-154 852-100

- Size 12
- 50 Ohm
- 40 GHz
- SMPM-Style
- Spring-Loaded
- Solder Termination

40 GHz SMPM



40 GHz. SMPM interface. 50 ohm. Size 12. Snap-in, rear release coax contacts fit Glenair connectors with size 12 contact cavities. Socket contact is spring-loaded for consistent contact engagement and low insertion loss through 40 GHz.



CONNECTOR COMPATIBILITY

- Series 795
- Series 23 SuperNine
- Series 806 RF Mil-Aero

CONSTRUCTION

- **Center contact, body, ferrule:** copper alloy, gold over nickel plating
- **Front insulator:** fluoropolymer
- **Dielectric Stop:** thermoplastic
- **Outer body, floating, socket contact:** SST, passivated
- **Spring, socket contact:** SST, passivated

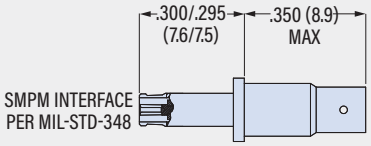
SPECIFICATIONS

- **Operating temperature:** -55 °C to +125 °C
- **Frequency range:** DC – 40 GHz
- **Impedance:** 50 ohms
- **VSWR DC – 26.5 GHz:** 1.21:1
- **VSWR 26.5 – 40 GHz:** 1.31:1
- **Insertion loss:** .03 X √ Freq. in GHz
- **Dielectric withstanding voltage:** 325 Vac rms
- **Insulation resistance:** 5,000 megohms
- **Durability:** 500 mating cycles

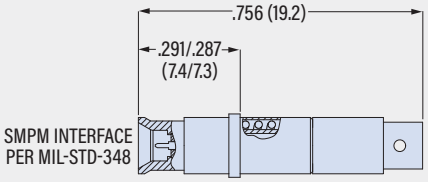
PART NUMBER

Coax Cable	Pin Contact ■ Series 795 ■ Series 806 RF ■ Series 233, 234	Socket Contact ■ Series 233, 234	Socket Contact ■ Series 795 ■ Series 806 RF ■ M38999 Series II
RG-405 Flex 962-010-405 *(Glenair)*	852-099-01	852-154-01	852-100-01
HP120s *(Semflex)*	852-099-02	852-154-02	852-100-02
1001935047 *(Molex)*	852-099-03	852-154-03	852-100-03

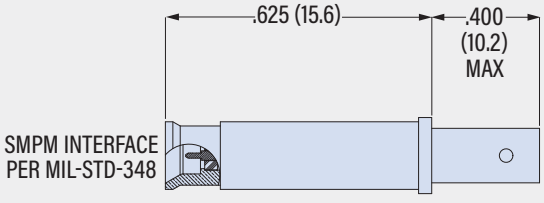
852-099 PIN CONTACT



852-100 SOCKET CONTACT

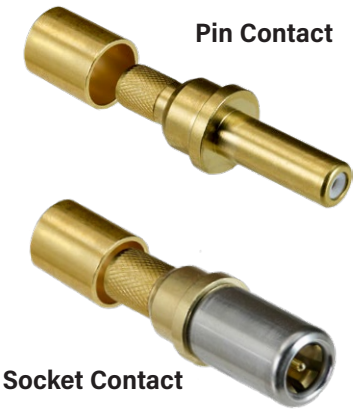


852-154 SOCKET CONTACT



852-103 852-104 852-106

- Size 12
- 75 Ohm
- 3 GHz



Low loss. 75 ohm. Size 12. Snap-in, rear release coax contacts fit MIL-DTL-38999 connectors and Glenair connectors with size 12 contact cavities. 75 ohm nominal impedance. DC – 3 GHz frequency range. Crimp termination. Supplied unassembled with instruction sheet.

PART NUMBER

Coax Cable	Pin Contact ■ Series 790, 791 ■ Series 80 ■ Series 806 ■ M38999 I, II, III, IV ■ Series 233, 234	Socket Contact ■ M38999 Ser. I, III, IV ■ Series 233, 234	Socket Contact ■ Series 790, 791 ■ Series 80 ■ Series 806 ■ M38999 Series II
V75268, V76261, V73263 *(PIC Wire and Cable)*	852-103-01	852-106-01	852-104-01
M17/94-RG179	852-103-02	852-106-02	852-104-02

CONNECTOR COMPATIBILITY

- MIL-DTL-38999 Series I, II, III, IV
- Series 790 & 791 Micro-Crimp
- Series 80 Mighty Mouse
- Series 23 SuperNine
- Series 806 Mil-Aero

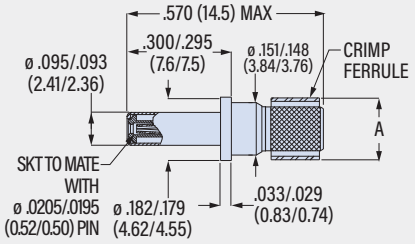
CONSTRUCTION

- **Center contact, body, ferrule:** copper alloy, gold over nickel plating
- **Dielectric:** fluoropolymer
- **Socket contact hood:** SST, passivated

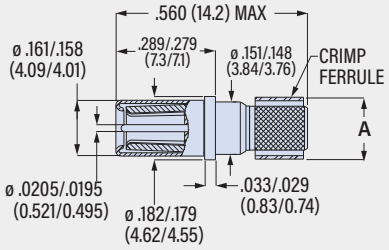
SPECIFICATIONS

- **Operating temperature:** -65 ºC to +200 ºC
- **VSWR:** 1.25:1 max. @ 3 GHz
- **Impedance:** 75 ohms
- **Dielectric withstanding voltage:** 500 Vac rms
- **Current rating:** 1 ampere
- **Durability:** 500 mating cycles

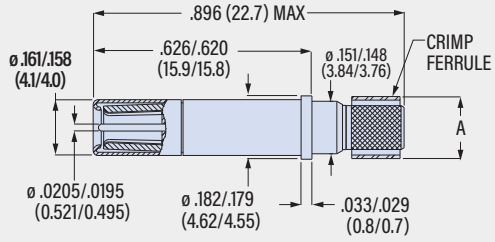
852-103 PIN



852-104 SOCKET



852-106 SOCKET



A DIMENSION

Part Number	A Crimp Ferrule
852-103-01	.156 (4.0) Max Round
852-103-02	.128 (3.3) Hex
852-104-01	.156 (4.0) Max Round
852-104-02	.128 (3.3) Hex
852-106-01	.156 (4.0) Max Round
852-106-02	.128 (3.3) Hex

ASSEMBLY TOOLS

Inner Contact Crimp Tool		Shield Crimp Tool	
852-103-01/-02, 852-104-01/-02		**852-103-01, 852-104-01, 852-106-01**	
Crimp Tool 809-128 (MH992)	Positioner 859-006 (K1721)	Crimp Tool 809-133 (M22520/31-01)	Positioner 859-128 (GP959)
852-106-01		**852-103-02, 852-104-02, 852-106-02**	
Crimp Tool 809-128 (MH992)	Positioner 859-167 (K2019)	Crimp Tool 809-129 (M22520/5-01)	Hex Die 809-130 (M22520/5-03)
852-106-02		**Insertion/Extraction Tool**	
Crimp Tool 809-015 (M22520/2-01)	Positioner 859-050 (M22520/2-31)	809-132 (M81868/14-04)	

852-130 852-251 852-131

- Size 16
- 50 Ohm
- Solder Termination
- 4 GHz

4 GHz. 50 ohm. Size 16. Snap-in, rear release coax contacts fit MIL-DTL-38999 connectors and Glenair connectors with size 16 contact cavities. Solder termination. Supplied unassembled with assembly instructions.

PART NUMBER

Coax Cable	Pin Contact ■ Series 790, 791 ■ Series 80 ■ Series 806 ■ M38999 I, II, III, IV ■ Series 233, 234	Socket Contact ■ M38999 Ser. I, III, IV ■ Series 233, 234	Socket Contact ■ Series 790, 791 ■ Series 80 ■ Series 806 ■ M38999 Series II
RG405-FLEX 962-010-405 *(Glenair)*	852-130-01	852-131-01	852-251-01
M17-93-RG178	852-130-02	852-131-02	852-251-02

CONNECTOR COMPATIBILITY

- MIL-DTL-38999 Series I, II, III, IV
- Series 790 & 791 Micro-Crimp
- Series 80 Mighty Mouse
- Series 23 SuperNine
- Series 806 Mil-Aero

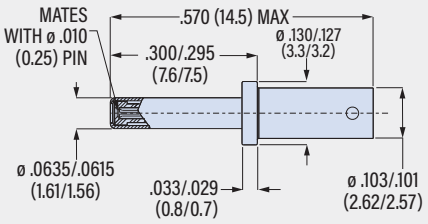
CONSTRUCTION

- **Center contact, body, ferrule:** copper alloy, gold over nickel plating
- **Dielectrics:** fluoropolymer
- **Socket contact hood:** SST, passivated

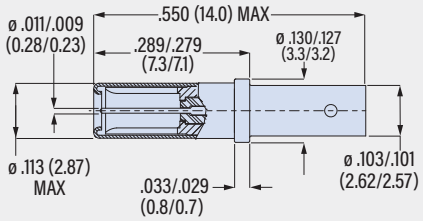
SPECIFICATIONS

- **Operating temperature:** -55 °C to +125 °C
- **Frequency range:** DC – 4 GHz
- **Impedance:** 50 ohms
- **VSWR:** 1.30:1
- **Dielectric withstanding voltage:** 325 Vdc
- **Insulation resistance:** 5,000 megohms
- **Durability:** 500 mating cycles

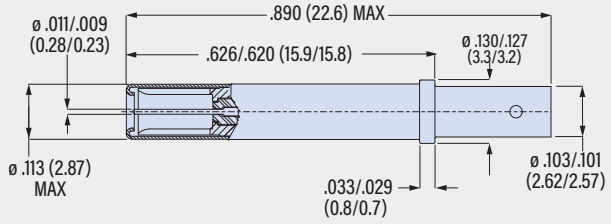
852-130 PIN



852-251 SOCKET



852-131 SOCKET



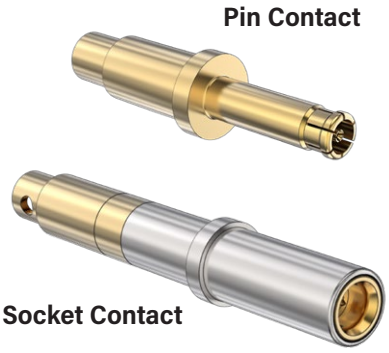
Coax Contacts

For Multi-Port Military/Aerospace Connectors

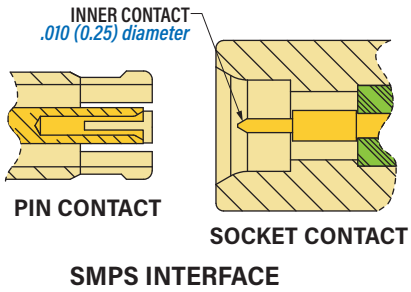
852-133 852-134 852-159

- Size 16
- 50 Ohm
- 65 GHz
- SMPS Style
- Spring-Loaded
- Solder Termination

65 GHz SMPS



65 GHz. SMPS interface. 50 ohm. Size 16. Snap-in, rear release coax contacts fit Glenair connectors with size 16 contact cavities. These spring-loaded contacts are suitable for millimeter-wave applications up to 65 GHz. Use with .047 flexible or semi-rigid cable with 29 AWG signal conductor. Solder termination.



CONNECTOR COMPATIBILITY

- Series 795
- Series 23 SuperNine
- Series 806 RF Mil-Aero

CONSTRUCTION

- **Center contact, body, ferrule:** copper alloy, gold over nickel plating
- **Dielectrics:** fluoropolymer
- **Outer body, floating, male contact:** SST, passivated
- **Spring, male contact:** SST, passivated

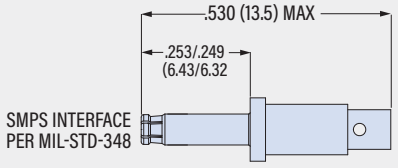
SPECIFICATIONS

- **Operating temperature:** -55 °C to +125 °C
- **Frequency range:** DC – 65 GHz
- **Impedance:** 50 ohms
- **VSWR:** 1.50:1
- **Dielectric withstanding voltage:** 250 Vac rms
- **Insulation resistance:** 5,000 megohms
- **Durability:** 500 mating cycles

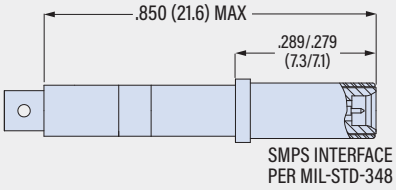
PART NUMBER

Coax Cable	Pin Contact ■ Series 795 ■ Series 806 RF ■ Series 233, 234	Socket Contact ■ Series 233, 234	Socket Contact ■ Series 795 ■ Series 806 RF
.047 S/R or Flexible 962-014 (*Glenair*) 1000671047 (*Temp-Flex*)	852-133-01	852-134-01	852-159-01

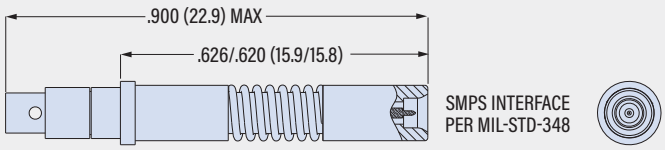
852-133 PIN



852-159 SOCKET



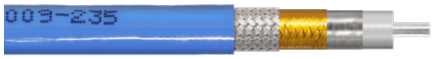
852-134 SOCKET



Selection Guide: 50 Ohm Coax Cable

Series 962 Coax Cables

50 Ohm Low Loss



BLUMARK RF COAX CABLES

Series 962 BluMark RF 50 Ohm Coax Cables are available in seven size categories: 047, 086, 160, 200, 235, 300 and 450. These low attenuation cables are suitable for aerospace applications and test equipment. Jacket options include FEP and radiation-resistant space-grade ETFE. Triple-shielded high performance cables have expanded PTFE dielectric core for low loss up to 40 GHz.

- Low attenuation
- FEP and ETFE jackets
- Low Phase Change cables
- Seven size categories
- Compatible with standard RF/ Microwave connectors

047

70 GHz
FEP Jacket
Tape + Braid Shield
.056 (1.4) Diameter
962-029-047
Page 29

086

40 GHz
FEP Jacket
Tape + Braid Shield
.104 (2.6) Diameter
962-010-405
Page 24

40 GHz
ETFE Jacket
Tape + Braid Shield
.097 (2.5) Diameter
962-010-405TZ
Page 24

160

40 GHz
FEP Jacket
Triple Shield
.161 (4.1) Diameter
962-009-160
Page 19

18 GHz
FEP Jacket
Tape + Braid Shield
.163 (4.1) Diameter
962-010-402
Page 25

18 GHz
ETFE Jacket
Tape + Braid Shield
.163 (4.1) Diameter
962-010-402TZ
Page 25

18 GHz
ETFE Jacket
Triple Shield
.145 (3.7 Diameter
962-016-160
Page 30

40 GHz
Low Phase Change
FEP Jacket
.157 (4.0) Diameter
962-011-402
Page 26

40 GHz
Low Phase Change
ETFE Jacket
.157 (4.0) Diameter
962-017-402
Page 31

200

26.5 GHz
FEP Jacket
Triple Shield
.204 (5.2) Diameter
962-009-200
Page 20

26.5 GHz
ETFE Jacket
Triple Shield
.187 (4.7) Diameter
962-012-200
Page 27

235

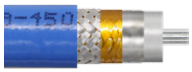
18 GHz
FEP Jacket
Triple Shield
.235 (6.0) Diameter
962-009-235
Page 21

18 GHz
ETFE Jacket
Triple Shield
.205 (5.2) Diameter
962-012-235
Page 28

300

18 GHz
FEP Jacket
Triple Shield
.310 (7.9) Diameter
962-009-300
Page 22

450



10 GHz
FEP Jacket
Triple Shield
.448 (6.0) Diameter
962-009-450
Page 23

Selection Guide

GLENAIR BLUMARK RF 50 OHM LOW LOSS COAX CABLE

Size Category	Part Number	Cable Type	Cable O.D. in	Cable O.D. mm	Conductor Dia. in	Conductor Dia. mm	Shield Construction	Jacket	GHz	Dielectric	Page
047	962-029-047	Flexible	.056	1.4	.011	0.29	Tape + Braid	FEP	70	FEP	29
086	962-010-405	Flexible	.104	2.6	.020	0.51	Tape + Braid	FEP	40	PTFE	24
	962-010-405TZ	Flexible	.097	2.5	.020	0.51	Tape + Braid	ETFE	40	PTFE	24
160	962-009-160	High Performance Flexible	.161	4.1	.036	0.91	Tape + Foil + Braid	FEP	40	e-PTFE	19
	962-010-402	Flexible	.163	4.1	.037	0.94	Tape + Braid	FEP	18	PTFE	25
	962-010-402TZ	Flexible	.163	4.1	.037	0.94	Tape + Braid	ETFE	18	PTFE	25
	962-011-402	Low Phase Change Flexible	.157	4.0	.041	1.04	Tape + PTFE + Braid	FEP	40	LPCF	26
	962-016-160	High Performance Flexible	.145	3.7	.036	0.91	Tape + Foil + Braid	ETFE	18	e-PTFE	30
	962-017-402	Low Phase Change Flexible	.157	4.0	.041	1.04	Tape + PTFE + Braid	ETFE	40	LPCF	31
200	962-009-200	High Performance Flexible	.204	5.2	.051	1.30	Tape + Foil + Braid	FEP	26.5	e-PTFE	20
	962-012-200	Flexible	.187	4.7	.051	1.30	Tape + Foil + Braid	ETFE	26.5	e-PTFE	27
235	962-009-235	High Performance Flexible	.235	6.0	.057	1.45	Tape + Foil + Braid	FEP	18	e-PTFE	21
	962-012-235	High Performance Flexible	.205	5.2	.057	1.45	Tape + Foil + Braid	ETFE	18	e-PTFE	28
300	962-009-300	High Performance Flexible	.310	7.9	.089	2.26	Tape + Foil + Braid	FEP	18	e-PTFE	22
450	962-009-450	High Performance Flexible	.448	11.4	.133	3.38	Tape + Foil + Braid	FEP	10	e-PTFE	23

JACKET ABBREVIATIONS

e-PTFE	expanded PTFE
ETFE	ethylene tetrafluoroethylene
FEP	fluorinated ethylene propylene
LPCF	low phase change fluoropolymer
PTFE	polytetrafluoroethylene

962-009-160
50 Ohm Low Loss Coax Cable

- 40 GHz
- Tape+Foil+Braid Shields
- e-PTFE Dielectric
- FEP Jacket
- .161" Diameter
- .036" Conductor

BLUMARK COAX CABLES RF™

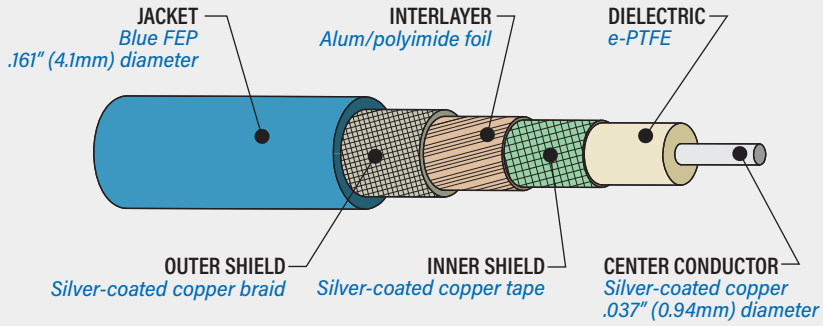
50 ohm. Low loss. Triple shield. 40 GHz.
962-009-160 coax cable has expanded PTFE dielectric for low attenuation at microwave frequencies. Abrasion resistant and flexible FEP jacket. Three metallic layers for greater than 90 dB of shielding effectiveness: SPC (silver-plated copper) tape inner shield, aluminum/polyimide foil interlayer, and round SPC braid outer shield. Solid SPC center conductor.

- 50 ohm
- 40 GHz
- -55 to +165 °C
- FEP jacket, e-PTFE dielectric
- >95 dB shield effectiveness
- Low attenuation

PART NUMBER

962-009-160 *Order in one foot increments*

CONSTRUCTION



DIMENSIONS

	in	mm
Center Conductor	.036	0.91
Dielectric	.104	2.6
Inner Shield	.110	2.8
Interlayer	.118	3.0
Outer Shield	.135	3.4
Jacket	.161	4.1
Min. Bend Radius	.787	20.0

OPERATING TEMPERATURE

-55 to +165 °C

ELECTRICAL SPECIFICATIONS

Impedance (ohms)	50
Velocity of Propagation	78%
Capacitance (pf/ft)	26
Shielding Effectiveness (dB)	>95
Delay (ns/ft)	1.31
Max. Operating Frequency (GHz)	40

ATTENUATION

	Attenuation (dB/ft)
0.5 GHz	.075
1 GHz	.107
3 GHz	.190
5 GHz	.250
10 GHz	.365
12 GHz	.404
18 GHz	.508
26.5 GHz	.633
30 GHz	.681
40 GHz	.804

962-009-200
50 Ohm Low Loss Coax Cable

- 26.5 GHz
- Tape+Foil+Braid Shields
- e-PTFE Dielectric
- FEP Jacket
- .204" Diameter
- .051" Conductor

COAX CABLE

BLUMARK COAX CABLES RF

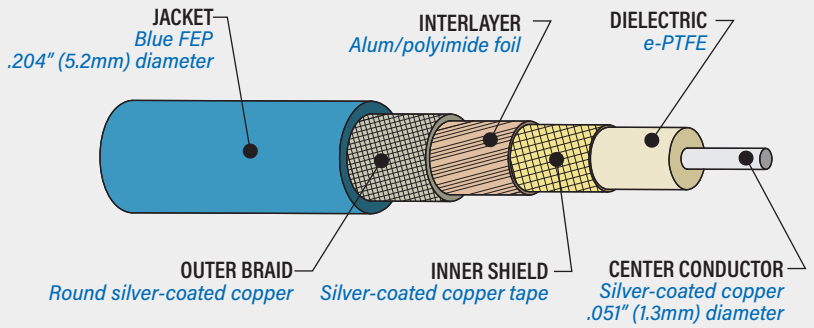
50 ohm. Low loss. Triple shield. 962-009-200 coax cable has expanded PTFE dielectric for low attenuation at microwave frequencies. Abrasion resistant and flexible FEP jacket. Three metallic layers for greater than 90 dB of shielding effectiveness: flat SPC (silver-plated copper) tape inner shield, aluminum/polyimide foil interlayer, and round SPC braid outer shield. Solid SPC center conductor.

- 50 ohm
- 26.5 GHz
- -55 to +165 °C
- FEP jacket, e-PTFE dielectric
- >90 dB shield effectiveness
- Tape/foil/braid shield layers
- Low attenuation

PART NUMBER

962-009-200 *Order in one foot increments*

CONSTRUCTION



DIMENSIONS

	in	mm
Center Conductor	.051	1.30
Dielectric	.135	3.4
Inner Shield	.149	3.8
Interlayer	.157	4.0
Outer Shield	.173	4.4
Jacket	.204	5.2
Min. Bend Radius	.984	25.0

ELECTRICAL SPECIFICATIONS

Impedance (ohms)	50
Velocity of Propagation	80
Capacitance (pf/ft)	25
Shielding Effectiveness (dB)	>90
Delay (ns/ft)	1.27
Max. Operating Frequency (GHz)	26.5

ATTENUATION

	Attenuation (dB/ft)
0.5 GHz	.053
1 GHz	.075
3 GHz	.132
5 GHz	.172
10 GHz	.249
12 GHz	.274
18 GHz	.342
26.5 GHz	.423

OPERATING TEMPERATURE

-55 to +165 °C

962-009-235
50 Ohm Low Loss Coax Cable

- 26.5 GHz
- Tape+Foil+Braid Shields
- e-PTFE Dielectric
- FEP Jacket
- .235" Diameter
- .057" Conductor

BLUMARK RF COAX CABLES

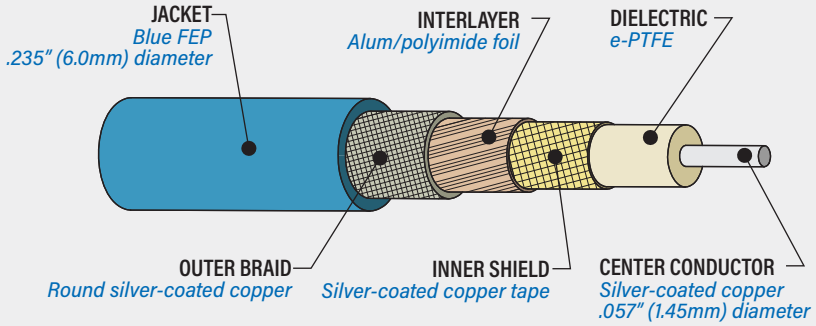
50 ohm. Low loss. Triple shield. 962-009-235 coax cable has expanded PTFE dielectric for low attenuation at microwave frequencies. Abrasion resistant and flexible FEP jacket. Three metallic layers for greater than 90 dB of shielding effectiveness: flat SPC (silver-plated copper) flat tape inner shield, aluminum/polyimide foil interlayer, and round SPC braid outer shield. Solid SPC center conductor.

- 50 ohm
- -55 to +165 °C
- FEP jacket, e-PTFE dielectric
- >90 dB shield effectiveness
- Tape/foil/braid shield layers
- Low attenuation
- Lightweight, flexible

PART NUMBER

962-009-235 *Order in one foot increments*

CONSTRUCTION



DIMENSIONS

	in	mm
Center Conductor	.057	1.45
Dielectric	.160	4.1
Inner Shield	.170	4.3
Interlayer	.175	4.4
Outer Shield	.191	4.9
Jacket	.235	6.0
Min. Bend Radius	1.181	30.0

ELECTRICAL SPECIFICATIONS

Impedance (ohms)	50
Velocity of Propagation	80
Capacitance (pf/ft)	25
Shielding Effectiveness (dB)	>90
Delay (ns/ft)	1.27
Max. Operating Frequency (GHz)	18

OPERATING TEMPERATURE

-55 to +165 °C

ATTENUATION

	Attenuation (dB/ft)
0.5 GHz	.047
1 GHz	.067
3 GHz	.119
5 GHz	.155
10 GHz	.225
12 GHz	.248
18 GHz	.310
26.5 GHz	.384

962-009-300
50 Ohm Low Loss Coax Cable

- 18 GHz
- Tape+Foil+Braid Shields
- e-PTFE Dielectric
- FEP Jacket
- .310" Diameter
- .089" Conductor

COAX CABLE

BLUMARK RF COAX CABLES

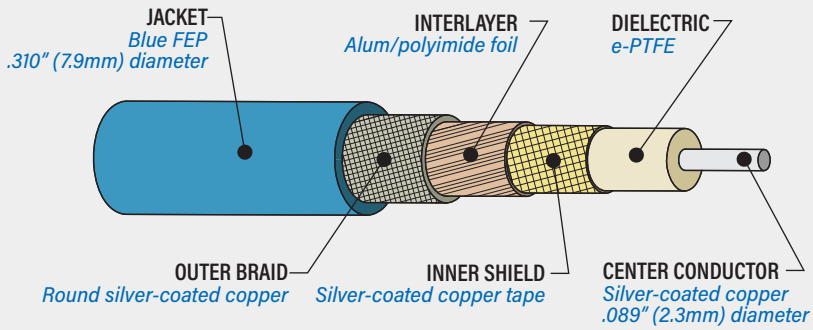
50 ohm. Low loss. Triple shield. 962-009-300 coax cable has expanded PTFE dielectric for low attenuation at microwave frequencies. Abrasion resistant and flexible FEP jacket. Three metallic layers for greater than 90 dB of shielding effectiveness: flat SPC (silver-plated copper) tape inner shield, aluminum/polyimide foil interlayer, and round SPC braid outer shield. Solid SPC center conductor.

- 50 ohm
- -55 to +165 °C
- FEP jacket, e-PTFE dielectric
- >90 dB shield effectiveness
- Tape/foil/braid shield layers
- Low attenuation
- Lightweight, flexible

PART NUMBER

962-009-300 *Order in one foot increments*

CONSTRUCTION



DIMENSIONS

	in	mm
Center Conductor	.089	2.3
Dielectric	.250	6.4
Inner Shield	.258	6.6
Interlayer	.264	6.7
Outer Shield	.284	8.5
Jacket	.310	7.6
Min. Bend Radius	1.181	30.0

ELECTRICAL SPECIFICATIONS

Impedance (ohms)	50
Velocity of Propagation	80
Capacitance (pf/ft)	25
Shielding Effectiveness (dB)	>90
Delay (ns/ft)	1.27
Max. Operating Frequency (GHz)	18

OPERATING TEMPERATURE

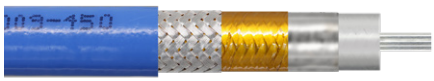
-55 to +165 °C

ATTENUATION

	Attenuation (dB/ft)
0.5 GHz	.036
1 GHz	.051
3 GHz	.089
5 GHz	.116
10 GHz	.167
12 GHz	.183
18 GHz	.228

962-009-450
50 Ohm Low Loss Coax Cable

- 10 GHz
- Tape+Foil+Braid Shields
- e-PTFE Dielectric
- FEP Jacket
- .448" Diameter
- .133" Stranded Conductor



BLUMARK COAX CABLES RF™

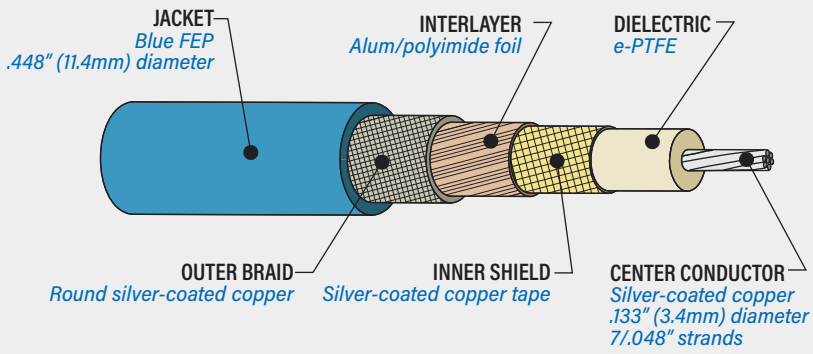
50 ohm. Low loss. Triple shield. 962-009-450 coax cable has expanded PTFE dielectric for low attenuation at microwave frequencies. Abrasion resistant and flexible FEP jacket. Three metallic layers for greater than 90 dB of shielding effectiveness: flat SPC (silver-plated copper) tape inner shield, aluminum/polyimide foil interlayer, and round SPC braid outer shield. Stranded SPC center conductor.

- 50 ohm
- -55 to +165 °C
- FEP jacket, e-PTFE dielectric
- >90 dB shield effectiveness
- Tape/foil/braid shield layers
- Low attenuation

PART NUMBER

962-009-450 *Order in one foot increments*

CONSTRUCTION



DIMENSIONS

	in	mm
Center Conductor	.133	3.4
Dielectric	.360	9.1
Inner Shield	.372	9.4
Interlayer	.378	9.6
Outer Shield	.393	10.0
Jacket	.448	11.4
Min. Bend Radius	1.574	40.0

ELECTRICAL SPECIFICATIONS

Impedance	50
Velocity of Propagation	80
Capacitance (pf/ft)	24
Shielding Effectiveness (dB)	>90
Delay (ns/ft)	1.27
Max. Operating Frequency (GHz)	10

OPERATING TEMPERATURE

-55 to +165 °C

ATTENUATION

	Attenuation (dB/ft)
0.5 GHz	.029
1 GHz	.042
3 GHz	.075
5 GHz	.098
10 GHz	.144

962-010-405
50 Ohm Low Loss Coax Cable

- 40 GHz
- Tape+Braid Shields
- PTFE Dielectric
- FEP or ETFE Jacket
- .097" or .104" Diameter
- .020" Conductor

BLUMARK COAX CABLES RF

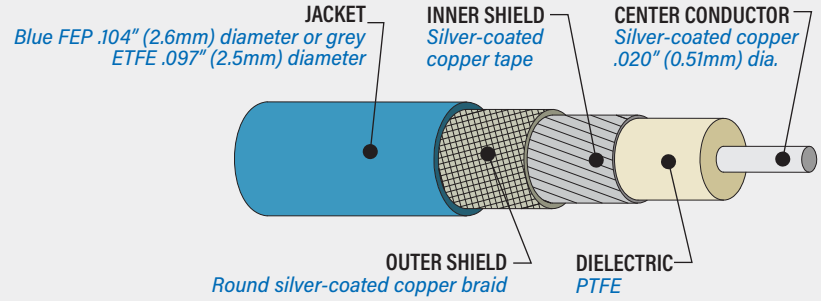
50 ohm. Double shield. Low loss. 962-010-405 coax cable is a flexible alternative to RG405 semi-rigid cable. Abrasion resistant blue FEP jacket or radiation resistant space -grade grey ETFE jacket. Two shield layers: flat SPC (silver-plated copper) tape wrap inner shield and round SPC braid outer shield. Solid SPC center conductor.

- 50 ohm
- FEP jacket: -55 to +165 °C
- ETFE jacket: -55 to +155 °C
- >90 dB shield effectiveness
- Double shield: braid over tape wrap
- Flexible equivalent to RG405

PART NUMBER

Cable Outer Jacket	Part Number	
FEP, Blue	962-010-405	*Order in one foot increments*
ETFE, Grey	962-010-405TZ	*Order in one foot increments*

CONSTRUCTION



DIMENSIONS

	in	mm
Center Conductor	.020	0.51
Dielectric	.064	1.6
Inner Shield	.071	1.8
Outer Shield	.086	2.2
FEP Jacket	.104	2.6
ETFE Jacket	.097	2.5
Min. Bend Radius	.236	6.0

ELECTRICAL SPECIFICATIONS

Impedance (ohms)	50
Velocity of Propagation	70%
Capacitance (pf/ft)	28.9
Shielding Effectiveness (dB)	>90
Delay (ns/ft)	1.43
Max. Operating Frequency (GHz)	40

ATTENUATION

	Attenuation (dB/ft)
0.5 GHz	.162
0.8 GHz	.207
1 GHz	.233
3 GHz	.419
6 GHz	.614
8 GHz	.721
10 GHz	.819
15 GHz	1.036
18 GHz	1.154
20 GHz	1.229
26.5 GHz	1.456
30 GHz	1.571
35 GHz	1.728
40 GHz	1.878

OPERATING TEMPERATURE

FEP Jacket	-55 to +165 °C
ETFE Jacket	-55 to +155 °C

962-010-402
50 Ohm Low Loss Coax Cable

- 18 GHz
- Tape+Braid Shields
- PTFE Dielectric
- FEP or ETFE Jacket
- .163" Diameter
- .037" Conductor

BLUMARK COAX CABLES RF™

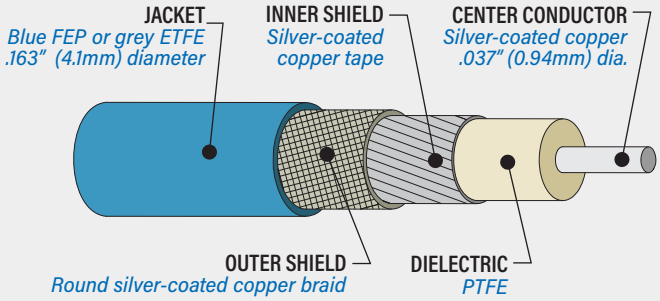
50 ohm. Double shield. Low loss. 962-010-402 coax cable has abrasion resistant FEP jacket or radiation-resistant space-grade ETFE jacket. Two shield layers: flat SPC (silver-plated copper) tape wrap inner shield and round SPC braid outer shield. Solid SPC center conductor.

- 50 ohm
- FEP jacket: -55 to +165 °C
- ETFE jacket: -55 to +155 °C
- >90 dB shield effectiveness
- Double shield: braid over tape wrap
- Flexible replacement for RG402

PART NUMBER

Cable Outer Jacket	Part Number	
FEP, Blue	962-010-402	*Order in one foot increments*
ETFE, Grey	962-010-402TZ	*Order in one foot increments*

CONSTRUCTION



DIMENSIONS

	in	mm
Center Conductor	.037	0.94
Dielectric	.117	3.0
Inner Shield	.126	3.2
Outer Shield	.142	3.6
Jacket	.163	4.1
Min. Bend Radius	.394	10.0

ATTENUATION

	Attenuation (dB/ft)
0.5 GHz	.092
0.8 GHz	.119
1 GHz	.134
3 GHz	.248
6 GHz	.372
8 GHz	.442
10 GHz	.507
15 GHz	.654
18 GHz	.735

ELECTRICAL SPECIFICATIONS

Impedance (ohms)	50
Velocity of Propagation	70%
Capacitance (pf/ft)	28.9
Shielding Effectiveness (dB)	>90
Delay (ns/ft)	1.43
Max. Operating Frequency (GHz)	18

OPERATING TEMPERATURE

FEP Jacket	-55 to +165 °C
ETFE Jacket	-55 to +155 °C

962-011-402
50 Ohm Low Phase Change Coax Cable

- 40 GHz
- Tape+Braid Shields
- LPCF Dielectric
- FEP Jacket
- .157" Diameter
- .041" Conductor

BLUMARK COAX CABLES RF

50 ohm. Phase stable. Double shield.
962-011-402 coax cable has LPCF dielectric to minimize phase shift caused by temperature change. Less than 250 ppm/°C phase change from -40 to +60 °C. Abrasion resistant, flexible FEP jacket. Two metallic layers for greater than 90 dB of shielding effectiveness: SPC (silver-plated copper) tape wrap inner shield, and round SPC braid outer shield. Solid SPC center conductor.

- 50 ohm
- Low phase change vs. temperature
- 40 GHz
- -55 to +165 °C
- FEP jacket
- LPCF dielectric
- 90 dB shield effectiveness
- Foil/braid shield layers
- Low attenuation

LPCF DIELECTRIC

Temperature changes can cause phase shift in coax cables with PTFE dielectric cores. ***Low Phase Change Fluoropolymer*** (***LPCF***) cables replace the PTFE core with a fluoropolymer material yielding improved phase stability over a wide temperature range.

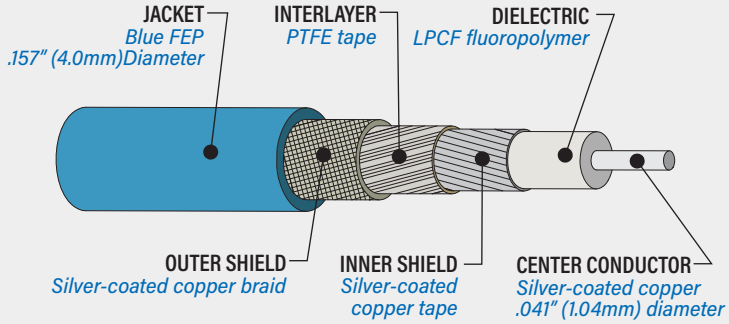
OPERATING TEMPERATURE

-55 to +165 °C

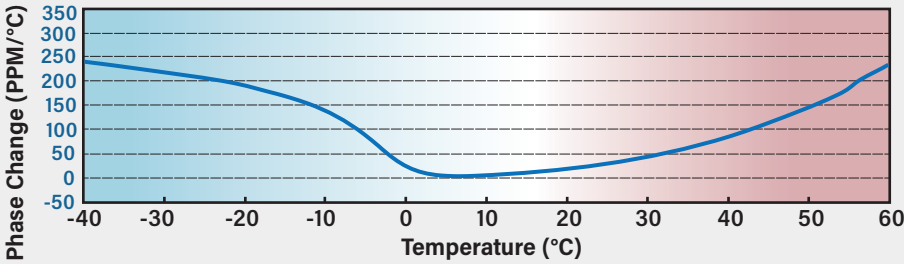
PART NUMBER

962-011-402 *Order in one foot increments*

CONSTRUCTION



PHASE CHANGE



DIMENSIONS

	in	mm
Center Conductor	.041	1.04
Dielectric	.108	2.7
Inner Shield (SPC tape)	.116	2.9
PTFE Interlayer	.118	3.0
Outer Shield (Braid)	.138	3.5
Overall Diameter	.157	4.0
Min. Bend Radius	1.574	40.0

ATTENUATION

	Attenuation (dB/ft)
0.3 GHz	.055
1 GHz	.103
2 GHz	.147
4 GHz	.213
6 GHz	.265
8 GHz	.310
10 GHz	.351
12 GHz	.389
14 GHz	.424
16 GHz	.457
18 GHz	.489
26.5 GHz	.612
40 GHz	.780

ELECTRICAL SPECIFICATIONS

Impedance (ohms)	50
Velocity of Propagation	82%
Shielding Effectiveness (dB)	90
Max. Operating Frequency (GHz)	40

962-012-200
50 Ohm Low Loss Coax Cable

- 26.5 GHz
- Tape+Foil+ Braid Shields
- e-PTFE Dielectric
- ETFE Jacket
- .187" Diameter
- .051" Conductor

BLUMARK COAX CABLES RF

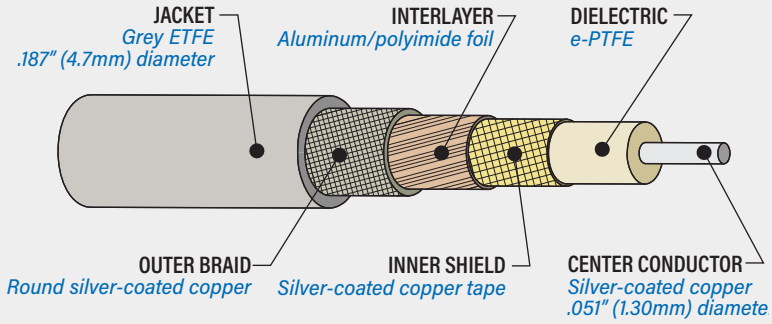
50 ohm. Low loss. Triple shield. Lightweight 962-012 coax cable has radiation resistant space-grade ETFE jacket. Expanded PTFE dielectric for low attenuation at microwave frequencies. Three metallic layers for greater than 90 dB of shielding effectiveness: flat SPC (silver-plated copper) tape inner shield, aluminum/polyimide foil interlayer, and round SPC braid outer shield. Solid SPC center conductor.

- 50 ohm
- -55 to +150 °C
- ETFE jacket, ePTFE dielectric
- >90 dB shield effectiveness
- Tape/foil/braid shield layers
- Low attenuation

PART NUMBER

962-012-200 *Order in one foot increments*

CONSTRUCTION



DIMENSIONS

	in	mm
Center Conductor	.051	1.30
Dielectric	.135	3.4
Inner Shield	.149	3.8
Interlayer	.157	4.0
Outer Shield	.173	4.4
Jacket	.187	4.7
Min. Bend Radius	.984	25.0

ELECTRICAL SPECIFICATIONS

Impedance	50
Velocity of Propagation	80
Capacitance (pf/ft)	25
Shielding Effectiveness (dB)	>90
Delay (ns/ft)	1.27
Max. Operating Frequency (GHz)	26.5

ATTENUATION

	Attenuation (dB/ft)
0.5 GHz	.053
1 GHz	.075
6 GHz	.190
12 GHz	.274
18 GHz	.342
26.5 GHz	.423

OPERATING TEMPERATURE

-55 to +150 °C

962-012-235
50 Ohm Low Loss Coax Cable

- 18 GHz
- Tape+Foil+ Braid Shields
- e-PTFE Dielectric
- ETFE Jacket
- .205" Diameter
- .057" Conductor

BLUMARK RF COAX CABLES

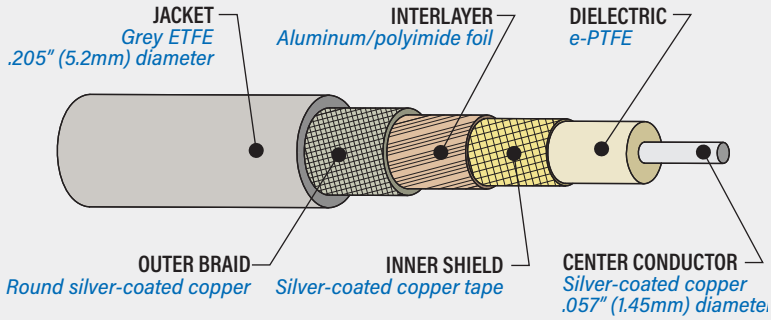
50 ohm. Low loss. Triple shield. Lightweight 962-012 coax cable has radiation-resistant space-grade ETFE jacket. Expanded PTFE dielectric for low attenuation at microwave frequencies. Three metallic layers for greater than 90 dB of shielding effectiveness: flat SPC (silver-plated copper) tape inner shield, aluminum/polyimide foil interlayer, and round SPC braid outer shield. Solid SPC center conductor.

- 50 ohm
- -55 to +150 °C
- ETFE jacket, ePTFE dielectric
- >90 dB shield effectiveness
- Tape/foil/braid shield layers
- Low attenuation
- Lightweight, flexible

PART NUMBER

962-012-235	*Order in one foot increments*

CONSTRUCTION



DIMENSIONS

	in	mm
Center Conductor	.057	1.44
Dielectric	.160	4.1
Inner Shield	.170	4.3
Interlayer	.175	4.4
Outer Shield	.191	4.9
Jacket	.205	5.2
Min. Bend Radius	1.181	30.0

ELECTRICAL SPECIFICATIONS

Impedance	50
Velocity of Propagation	80
Capacitance (pf/ft)	25
Shielding Effectiveness (dB)	>90
Delay (ns/ft)	1.27
Max. Operating Frequency (GHz)	18

ATTENUATION

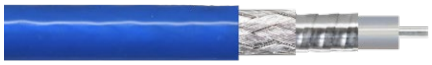
	Attenuation (dB/ft)
0.5 GHz	.047
1 GHz	.067
6 GHz	.171
12 GHz	.248
18 GHz	.310

OPERATING TEMPERATURE

-55 to +150 °C

962-029-047
50 Ohm Low Loss Coax Cable

- 70 GHz
- Tape + Braid Shields
- FEP Dielectric
- .056" Diameter
- Silver-Plated Copper Conductor



BLUMARK RF COAX CABLES

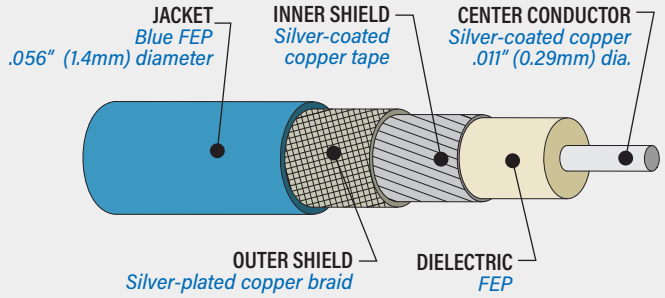
50 ohm. Double shield. Low loss. 962-029 coax cable has abrasion resistant FEP jacket. Two shield layers: flat SPC (silver-plated copper) tape wrap inner shield and round SPC braid outer shield. Solid SPC center conductor.

- 50 ohm
- -65 to +165 °C
- .056" (1.4) diameter
- >90 dB shield effectiveness
- Double shield: braid over tape wrap

PART NUMBER

962-029-047 *Order in one foot increments*

CONSTRUCTION



DIMENSIONS

	in	mm
Center Conductor	.0113	0.29
Dielectric	.036	0.9
Outer Shield	.046	1.2
Min. Bend Radius	.2	5.1

ELECTRICAL SPECIFICATIONS

Impedance (ohms)	50
Velocity of Propagation	70
Capacitance (pf/ft)	29
Shielding Effectiveness (dB)	>90
Max. Operating Frequency (GHz)	70

ATTENUATION

	Attenuation (dB/ft)
0.5 GHz	.28
1 GHz	.39
5 GHz	.90
10 GHz	1.30
18 GHz	1.80
26.5 GHz	2.26

OPERATING TEMPERATURE

-65 to +165 °C

962-016-160
50 Ohm Low Loss Coax Cable

- 18 GHz
- Tape+Foil+Braid Shields
- e-PTFE Dielectric
- ETFE Jacket
- .145" Diameter
- .036" Conductor

BLUMARK RF COAX CABLES

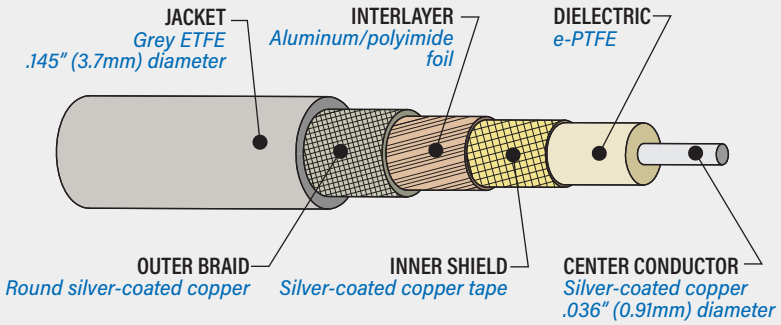
50 ohm. Low loss. Triple shield. Lightweight 962-016-160 coax cable has radiation-resistant space-grade ETFE jacket. Expanded PTFE dielectric for low attenuation at microwave frequencies. Three metallic shield layers: SPC (silver-plated copper) tape inner shield, aluminum/polyimide foil interlayer, and round SPC braid outer shield. Solid SPC center conductor.

- 50 ohm
- -55 to +165 °C
- ETFE jacket, ePTFE dielectric
- >90 dB shield effectiveness
- Braid/foil/braid shield layers
- Low attenuation

PART NUMBER

962-016-160 *Order in one foot increments*

CONSTRUCTION



DIMENSIONS

	in	mm
Center Conductor	.036	0.91
Dielectric	.104	2.6
Inner Shield	.110	2.8
Interlayer	.118	3.0
Outer Shield	.135	3.4
Jacket	.145	3.7
Min. Bend Radius	.787	20.0

ELECTRICAL SPECIFICATIONS

Impedance (ohms)	50
Velocity of Propagation	78%
Capacitance (pf/ft)	26
Shielding Effectiveness (dB)	>95
Delay (ns/ft)	1.30
Max. Operating Frequency (GHz)	18

ATTENUATION

	Attenuation (dB/ft)
0.5 GHz	.075
1 GHz	.107
3 GHz	.190
5 GHz	.250
10 GHz	.365
12 GHz	.404
18 GHz	.508

OPERATING TEMPERATURE

-55 to +165 °C

962-017-402
50 Ohm Low Phase Change Coax Cable

- 40 GHz
- Tape+Braid Shields
- LPCF Dielectric
- ETFE Jacket
- .157" Diameter
- .041" SPC Conductor

BLUMARK COAX CABLES RF™

50 ohm. Phase stable. Double shield. 962-017-402 coax cable has LPCF dielectric to minimize phase shift caused by temperature change. Less than 250 ppm/°C phase change from -40 to +60 °C. Radiation-resistant space-grade ETFE jacket. Two metallic layers for greater than 90 dB of shielding effectiveness: SPC (silver-plated copper) tape inner shield, and round SPC braid outer shield. Solid SPC center conductor.

- 50 ohm
- Low phase change vs. temperature
- -55 to +165 °C
- ETFE jacket
- LPCF dielectric
- 90 dB shield effectiveness
- Two shield layers
- Low attenuation

LPCF DIELECTRIC

Temperature changes can cause phase shift in coax cables with PTFE dielectric cores. ***Low Phase Change Fluoropolymer*** (***LPCF***) cables replace the PTFE core with a fluoropolymer material yielding improved phase stability over a wide temperature range.

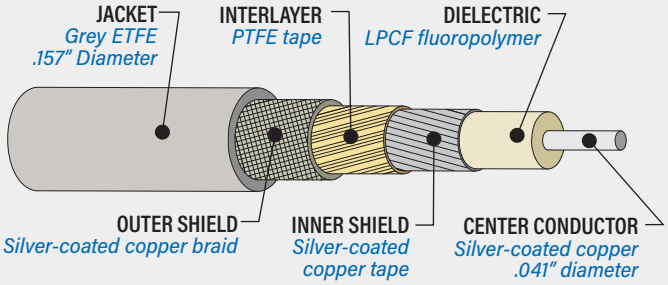
OPERATING TEMPERATURE

-55 to +165 °C

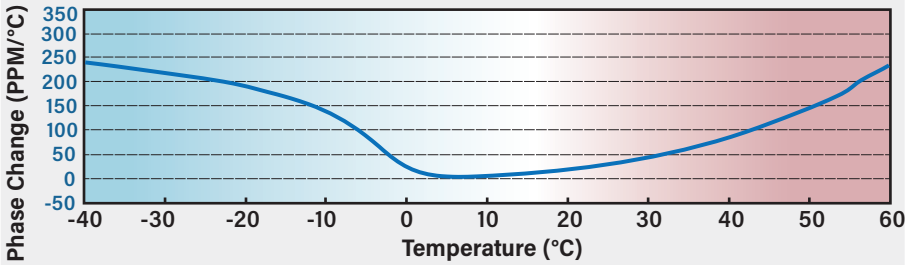
PART NUMBER

962-017-402 *Order in one foot increments*

CONSTRUCTION



PHASE CHANGE



DIMENSIONS

	in	mm
Center Conductor	.041	1.0
Dielectric	.109	2.8
Inner Foil Shield	.116	2.9
PTFE Interlayer	.125	3.2
Outer Braid Shield	.141	3.6
Jacket	.157	4.0
Min. Bend Radius	.945	24.0

ELECTRICAL SPECIFICATIONS

Impedance (ohms)	50
Velocity of Propagation	82%
Capacitance (pF/ft)	24.8
Shielding Effectiveness (dB)	90
Delay (ns/ft)	1.24
Max. Operating Frequency (GHz)	40

ATTENUATION

	dB/ft
0.5 GHz	.072
1 GHz	.101
2 GHz	.147
4 GHz	.213
6 GHz	.265
8 GHz	.311
10 GHz	.351
12 GHz	.387
14 GHz	.424
16 GHz	.457
18 GHz	.488
20 GHz	.520
26.5 GHz	.610
30 GHZ	.658
40 GHz	.780

Selection Guide: 50 Ohm Coax Cable Assemblies

50 Ohm Coax Cable Assemblies

Standard RF coax cable assemblies feature low-loss cable and precision-grade connectors.

Jumpers

SMA 086 CABLE

GRF02-001-086
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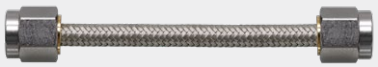
SMA 141 CABLE



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SMA - N 141 CABLE

GRF02-004-141
Page 34

N-N 141 CABLE

GRF02-0010-141
Page 34

SMA - N 141 CABLE

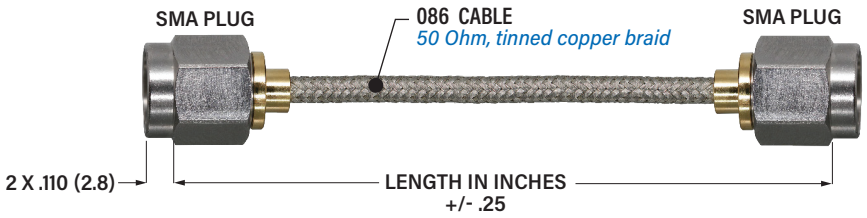
GRF02-024
Page 35

GRF02-001
Male SMA to Male SMA Jumper

- 18 GHz
- 086 and 141 Sizes
- 50 Ohm Coax Cable
- SST Connector Body
- No Jacket

086 JUMPER ASSEMBLY

Back-to-back jumper has male SMA plug on each end. 50 ohm low loss coax cable has unjacketed tinned copper braid for excellent flexibility. SMA connectors are stainless steel with gold-plated body and passivated coupling nut. Contact is gold-plated copper alloy.



PART NUMBER

GRF02-001-086-◆

Replace ◆ with length in one inch increments, 3 inch minimum

SPECIFICATIONS

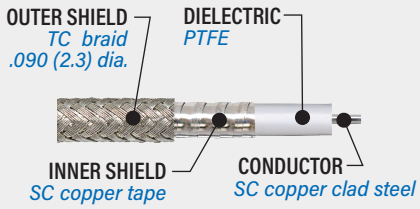
- **Operating temperature:** -55 °C to +165 °C
- **Minimum bend radius:** .236 in. (6.0 mm)
- **Frequency range:** DC – 18 GHz
- **VSWR:** 1.30 maximum
- **Impedance:** 50 ohm nominal

INSERTION LOSS (IL)

	Connector IL (dB)	Cable IL (dB/in)
3 GHz	.250	.036
6 GHz	.353	.053
12 GHz	.500	.074
15 GHz	.558	.089
18 GHz	.612	.099

Calculate Insertion Loss (IL)
Multiply cable length in inches times the Cable IL from table. Add this to connector IL from table. Connector IL includes both connectors.

086 CABLE CONSTRUCTION

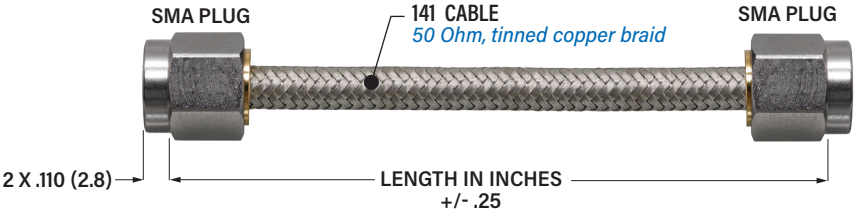


WEIGHT

	Weight (ounces)
Connectors	.218
Coax Cable	.012 per inch

141 JUMPER ASSEMBLY

Back-to-back jumper has male SMA plug on each end. 50 ohm low loss coax cable has unjacketed tinned copper braid for excellent flexibility. SMA connectors are stainless steel with gold-plated body and passivated coupling nut.



PART NUMBER

GRF02-001-141-◆

Replace ◆ with length in one inch increments, 3 inch minimum

SPECIFICATIONS

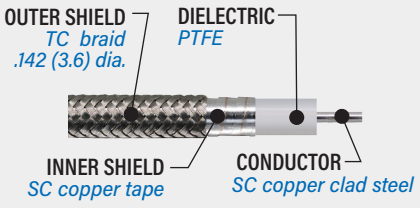
- **Operating temperature:** -55 °C to +165 °C
- **Minimum bend radius:** .394 in. (10.0 mm)
- **Frequency range:** DC – 18 GHz
- **VSWR:** 1.30 maximum
- **Impedance:** 50 ohm nominal

INSERTION LOSS (IL)

	Connector IL (dB)	Cable IL (dB/in)
3 GHz	.250	.020
6 GHz	.353	.030
12 GHz	.500	.046
15 GHz	.558	.053
18 GHz	.612	.060

Calculate Insertion Loss (IL)
Multiply cable length in inches times the Cable IL from table. Add this to connector IL from table. Connector IL includes both connectors.

141 CABLE CONSTRUCTION



WEIGHT

	Weight (ounces)
Connectors	.155
Coax Cable	.04 per inch

GRF02-004-141 Male N to Male SMA Jumper
GRF02-0010-141 Male N to Male N Jumper

- 18 GHz
- Precision-Grade Connectors
- Flexible cable

N-SMA JUMPER ASSEMBLY

RF cable assembly has male Type N plug on one end and SMA plug on the other end. 50 ohm low loss coax cable has unjacketed tinned copper braid for excellent flexibility. SMA connector is stainless steel with gold-plated body and passivated coupling nut. N connector is nickel-plated brass with gold-plated brass pin contact, PTFE insulator, silicone rubber gasket and SST snap-ring.

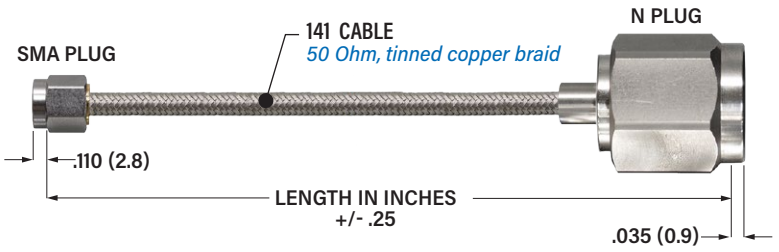
PART NUMBER

GRF02-004-141-◆

Replace ◆ with length in one inch increments, 3 inch minimum

SPECIFICATIONS

- **Frequency range:** DC – 18 GHz
- **VSWR:** 1.30 maximum
- **Impedance:** 50 ohm nominal

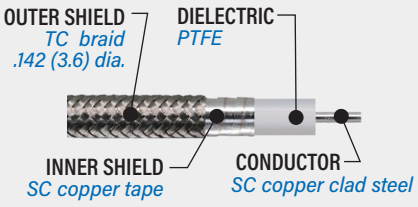


INSERTION LOSS (IL)

	Connector IL (dB)	Cable IL (dB/in)
3 GHz	.250	.020
6 GHz	.353	.030
12 GHz	.500	.046
15 GHz	.558	.053
18 GHz	.612	.060

Calculate Insertion Loss (IL)
Multiply cable length in inches times the Cable IL from table. Add this to connector IL from table. Connector IL includes both connectors.

141 CABLE CONSTRUCTION



WEIGHT

	Weight (ounces)
Connectors	1.56
Coax Cable	.04 per inch

N-N JUMPER ASSEMBLY

RF cable assembly has male Type N plug on both ends. 50 ohm low loss coax cable has unjacketed tinned copper braid for excellent flexibility. N connectors are nickel-plated brass with gold-plated brass pin contact, PTFE insulator, silicone rubber gasket and SST snap-ring.

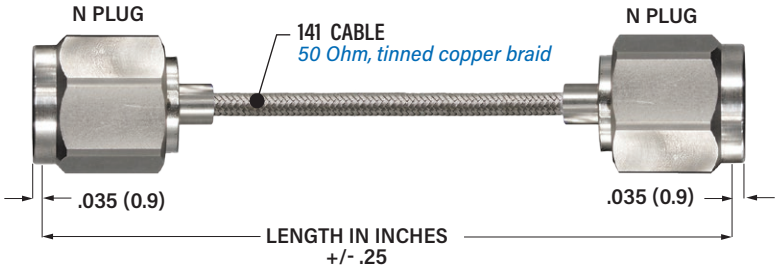
PART NUMBER

GRF02-0010-141-◆

Replace ◆ with length in one inch increments, 3 inch minimum

SPECIFICATIONS

- **Frequency range:** DC – 18 GHz
- **VSWR:** 1.30 maximum
- **Impedance:** 50 ohm nominal

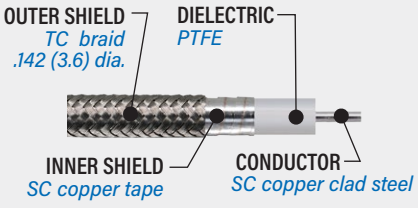


INSERTION LOSS (IL)

	Connector IL (dB)	Cable IL (dB/in)
3 GHz	.250	.020
6 GHz	.353	.030
12 GHz	.500	.046
15 GHz	.558	.053
18 GHz	.612	.060

Calculate Insertion Loss (IL)
Multiply cable length in inches times the Cable IL from table. Add this to connector IL from table. Connector IL includes both connectors.

141 CABLE CONSTRUCTION



WEIGHT

	Weight (ounces)
Connectors	2.96
Coax Cable	.04 per inch

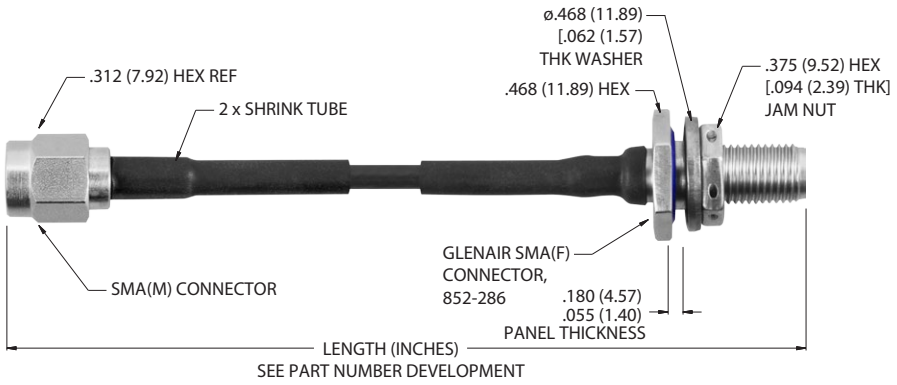
GRF02-0024

Male to Female SMA Assembly

- RG 174 or RG 316 Cable
- Precision-Grade Connectors
- Flexible cable

SMA JUMPER ASSEMBLY

RF cable assembly has male SMA connector on one end and female SMA hermetic jam-nut on the other end. Two 50 ohm cable types, RG174 and RG316, are available. RG174 coax cable has black PVC jacket rated to 85°C and RG316 cable has tan FEP jacket rated to 200°C. SMA connector outer body is stainless steel with passivated finish. Hermetic Jam-nut connector is stainless steel with passivated finish. Center contact is copper alloy and gold plated.



TOLERANCE IS:
+1.80/-0.00 FOR "L" LESS THAN OR EQUAL TO 60.00 INCHES
+3%/-0.00 FOR "L" GREATER THAN 60.00 INCHES

PART NUMBER

GRF02-0024-01-◆

01: RG174 50 ohm cable
02: RG316 50 ohm cable

Replace ◆ with length in one inch increments, 3 inch minimum

SPECIFICATIONS

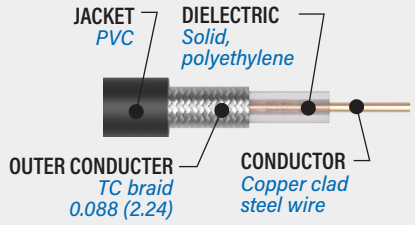
- **Frequency range:**
  RG174: DC – 1 GHz
  RG316: DC – 3 GHz
- **VSWR:** 1.30:1 maximum
- **Impedance:** 50 ohm nominal
- **Insertion Loss:**
  See Insertion Loss table

INSERTION LOSS (IL)

	Connector IL (dB)	Cable IL (dB/ft)
RG174: 1 GHz	.500	.320
RG316: 3 GHz	.500	.580

Calculate Insertion Loss (IL)
Multiply cable length in inches times the Cable IL from table. Add this to connector IL from table. Connector IL includes both connectors.

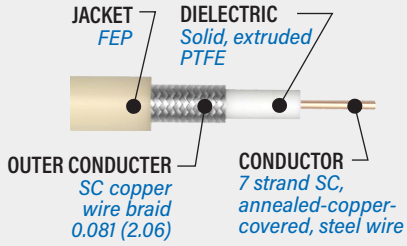
RG174 CABLE CONSTRUCTION



WEIGHT

	Weight
Connectors	0.289 oz
Coax Cable	.0095 lb per foot

RG316 CABLE CONSTRUCTION



WEIGHT

	Weight
Connectors	6.0775 oz
Coax Cable	1.22 lb per 100 ft

Rev. 05.16.23

Selection Guide

SERIES 795
Multi-Port RF Rectangular Connectors

Series 795 connectors accommodate up to nine size 8 BMB-style coax contacts. Contacts snap into connector body and are removable. Environmentally protected with fluorosilicone face seal and rear grommet. One piece connector shell provides a common ground plane and also eliminates EMI radiation through the connector.

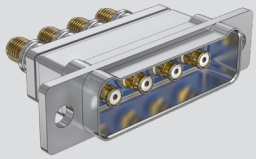
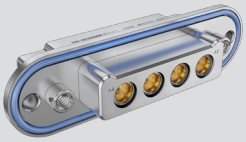
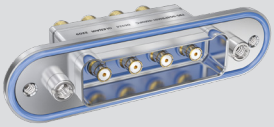
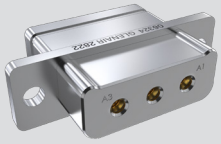
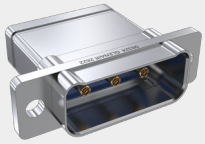
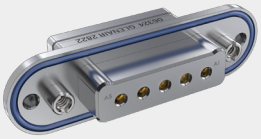
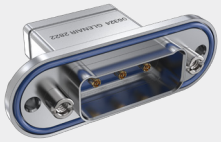
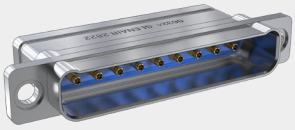
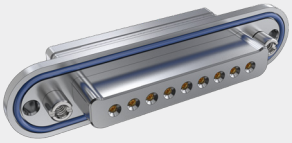
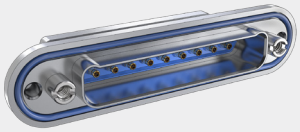
Panel mount receptacle has conductive fluorosilicone O-ring for ingress protection. #8-32 jackscrews provide secure mating in high vibration environments.

G-Link RF Contacts

18 GHz G-Link RF contacts have a BMB-style mating end and a female SMA interface on the back end. Attach a standard SMA plug cable to the G-Link RF contact.

- Seven layouts for two to nine RF ports (contacts sold separately)
- Rugged one-piece aluminum housing
- Environmental
- Scoop-proof interface
- EMI spring
- BMB-style spring-loaded coax contacts
- Snap-in, rear-release contacts

Series 795 RF Connector Selection Guide

Cable Plugs, Socket Contacts	Cable Receptacles, Pin Contacts	Panel Mount Plugs, Socket Contacts	Panel Mount Receptacles, Pin Contacts
			
795-001S (#8 BMB Contacts)	**795-002P** (#8 BMB Contacts)	**795-003S** (#8 BMB Contacts)	**795-004P** (#8 BMB Contacts)
			
795-005S (#12 SMPM Contacts)	**795-006P** (#12 SMPM Contacts)	**795-007S** (#12 SMPM Contacts)	**795-008P** (#12 SMPM Contacts)
			
795-009S (#16 SMPS Contacts)	**795-010P** (#16 SMPS Contacts)	**795-011S** (#16 SMPS Contacts)	**795-012P** (#16 SMPS Contacts)

Series 795 General Information
Materials, Finishes, Specifications

SERIES 795
Materials and Finishes

The United States Department of Defense (DoD) has issued a directive to minimize or eliminate the use of cadmium and hexavalent cadmium on DoD equipment. The DoD has approved nickel-PTFE and zinc-nickel shell platings as replacements for cadmium plating. European Union Directive 2002/95/EC on Restriction of the use of certain Hazardous Substances (RoHS) states that certain types of equipment (primarily consumer products such as personal computers) shall not contain lead, mercury, cadmium, hexavalent chromium, PBB's or PBDE's. The three standard shell finish options in this catalog comply with RoHS and DoD directives and are free from cadmium and hexavalent chromium.

MATERIALS AND FINISHES

Description	Material	Finish
Shell	Aluminum alloy 6061	See table below
Interfacial seal	Fluorosilicone blend elastomer	None
Grommet	Fluorosilicone blend elastomer	None
O-ring, conductive	Silver-plated alum. filled fluorosilicone	None
EMI spring	Beryllium copper	Nickel
Contact retention clip	Beryllium copper	None
Jackscrew, jackpost	300 series stainless steel	Passivated

STANDARD CONNECTOR SHELL FINISH CODES

Plating Code	Type	Salt Spray Hours	Application Notes
M	Electroless Nickel	48	Standard finish for Series 795 connectors. Approved for space programs. Excellent conductivity. Reflective. RoHS compliant, Cr6-free. ***ASTM B733 Category SC2***
MT	Nickel-PTFE	500	Excellent corrosion resistance and durability. Excellent conductivity. Matte, light grey appearance. Solderable. RoHS compliant, Cr6-free. ***SAE AMS2454***

ADDITIONAL CONNECTOR SHELL FINISH CODES

Plating Code	Type	Salt Spray Hours	Application Notes
Z2	Gold	48	RoHS compliant, Cr6-free. ***MIL-DTL-45204***
J	Cadmium/ gold chromate	500	Not allowed in space applications. Excellent conductivity and corrosion resistance. ***Not RoHS compliant***. ***SAE AMS-QQ-P-416***
NF	Cadmium, olive drab chromate	500	Not allowed in space applications. Excellent conductivity and corrosion resistance. ***Not RoHS compliant***. ***SAE AMS-QQ-P-416***
C	Black Anodize	336	Non-conductive, not suitable for EMI-protected equipment. Cadmium-free, Cr6-free. RoHS compliant. ***MIL-A-8625***

Series 795 General Information
Specifications

DESCRIPTION	REQUIREMENT	PROCEDURE
Insulation resistance	Not applicable (connector is one piece aluminum)	EIA-364-21
Dielectric withstanding voltage	Not applicable (connector is one piece aluminum)	EIA-364-20
Shell-to-shell resistance (with ground spring)	2.5 millivolt maximum	EIA-364-83
Shielding effectiveness	Frequency / Attenuation dB 100 / 75 1000 / 50 3000 / 44 6000 / 38 10000 / 35	EIA-364-66
Ingress protection	IP67 rating	IEC-60529
Vibration, sine	No discontinuity of greater than 1 microseconds, no cracking, breaking or loosening of parts.	EIA-364-28 Test Condition IV 100 milliamp test current, 10- 2,000 Hz 20 g, 196 m/s2
Vibration, random	No discontinuity of greater than 1 microseconds, no cracking, breaking or loosening of parts, plug shall not become disengaged from receptacle.	364-28 Test Condition V Letter E 100 milliamp test current, 50- 2,000 Hz 16.91 g rms, 8 hrs. each axis
Mechanical shock	No discontinuity of greater than 1 microsecond, no cracking, breaking or loosening of parts, plug shall not become disengaged from receptacle.	EIA-364-27 Condition D 3 shocks X 3 axes X 2 directions = 18 shocks 2941 m/s2 (300 g's), 3 ms, half-sine
Thermal shock	No mechanical damage or loosening of parts. Following thermal shock, connector shall meet contact resistance, DWV, insulation resistance and shell-to-shell resistance requirements	EIA-364-32 Test Condition IV 5 cycles consisting of -65° C 30 minutes, +25° C 5 minutes max., +150° C 30 minutes, +25° C 5 minutes max.
Humidity	No deterioration which will adversely affect the connector. 100 megohms minimum insulation resistance during the final cycle. Following the recovery period, connectors shall meet contact resistance, shell-to-shell resistance and DWV requirements.	EIA-364-31 Method IV 80-98% RH, 10 cycles (10 days), +25° C to +65° C Step 7b vibration deleted. 24 hour recovery period.
Altitude – Low Temperature	5000 megohms minimum insulation resistance.	EIA-364-105, -65° C, 100,000 feet (11 mbar) Wired, mated pairs
Mechanical Durability, at Ambient Temperature	500 cycles	EIA-364-09
Corrosion (Salt Mist)	No exposure of base metal. Connectors shall meet DWV and contact resistance requirements following the test.	EIA-364-26, 5% salt solution, 35° Code M: electroless nickel 48 hours Code MT: nickel-PTFE 500 hours
Impact, Cable Connectors	No impairment of function. Connector shall meet contact resistance, insulation resistance and waterproof sealing.	EIA-364-42, 1 meter, 8 drops
Fluid Immersion	No damage from immersion in various fuels and oils. Connector shall meet mating/unmating force and dielectric withstanding voltage.	EIA-364-10
Altitude Immersion	No evidence of moisture on connector interface or contacts. Connector shall meet dielectric withstanding voltage.	EIA-364-03 75,000 feet simulated altitude
Contact retention, Size #8 BMB coax contacts	25 lbs. minimum	EIA-364-29
Magnetic permeability	2 mu maximum	EIA-364-54
Thermal vacuum outgassing	All nonmetallic materials shall not release greater than 1.0 percent total mass loss (TML) and 0.1 percent collected volatile condensable material (CVCM)	ASTM E595 Test to be performed following 24 hours vacuum bakeout at +125 °C, 10-6 Torr.

Series 795 General Information
High Reliability Space Flight Applications

SERIES 795
Space Flight Information

Is the Series 795 qualified and approved for space flight?

The Series 795 connector is an RF/microwave version of the space-approved Series 791 connector.

Do Series 795 connectors meet outgassing requirements?

Connectors must be vacuum baked to guarantee compliance with outgassing limits established by NASA and military space programs. The requirements are 1.0 % Total Mass Loss (TML) and 0.1% Collected Volatile Condensable Material (CVCM). ASTM E595 defines the test procedure.

What is vacuum bakeout?

Connectors are placed in a special oven for 24 hours at +125°C and a vacuum of 10^{-6} Torr.

Are Series 795 connectors non-magnetic?

Series 795 connectors meet the 2.0µ magnetic permeability requirement of EIA-364-54. Additional residual magnetism screening is available on request.

Series 795 connectors are available with upgraded screening and vacuum bakeout for high reliability space programs. Find the appropriate code from the following table and add the code to the part number.

Example
795-001SBMB1-4ML-*429C*

SPACE GRADE MODIFICATION CODES

Modification Code	NASA Screening Level: Level 1 Highest Reliability	NASA Screening Level: Level 2 High Reliability	Vacuum Bakeout 24 hours +125 °C
-429		●	
-429A		●	●
-429B	●		
-429C	●		●
-186M			●

NASA Screening Requirements (EEE-INST-002 Table 2C)

Inspection/Test	NASA Screening Level: Level 1 Highest Reliability	NASA Screening Level: Level 2 High Reliability
Visual Inspection	100% 10X magnification	100% 10X magnification
Mechanical Inspection	2 connectors 10X magnification	2 connectors 10X magnification
DWV/IR	2 connectors	2 connectors
Contact Separation Force (non-removable contacts)	2 connectors	Not required
Mating and Unmating Force	2 connectors	Not required
Hermeticity (hermetic connectors only)	100%	100%
Vacuum Bakeout (Optional, depends on Mod code)	100%	100%

795-001S
Cable Plug, Socket Contacts

- Size #8 Contacts
- All-Aluminum Body
- Two to Nine Ports
- 18 GHz BMB Coax
- Environmental
- Scoop-Proof

Shown with 50 ohm G-LinkRF coax contacts (sold separately)

Two to nine ports. Size 8 contacts. 795-001 plugs have machined aluminum housings and fluorosilicone grommet for environmental protection. Size 8 socket contact cavities have beryllium copper retention clips. Use with 18 GHz BMB coax contacts (P/N 852-152, ordered separately) or 18 GHz G-LinkRF BMB/SMA coax contacts (852-256, ordered separately).

CONSTRUCTION

- **Shell:** aluminum
- **Grommet:** fluorosilicone
- **Jackscrew:** SST, passivated
- **Contact retainer clip:** copper alloy, unplated

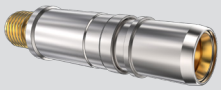
SPECIFICATIONS

- **Operating temperature:** -55 °C to +125 °C
- **Shock:** EIA-364-27 Condition D
- **Vibration:** EIA-364-28 Condition V Letter E
- **Shell-to-shell resistance:** 2.5 milliohms max. with ground spring option

COAX CONTACTS

Not included with 795-001 connector. Sold separately.

G-LinkRF



- Part Number **852-256**
- Integral release sleeve
- Attach SMA plug directly to contact

for Flexible Coax Cable

- Part Number **852-152**
- 18 GHz, solder termination
- Accepts 402-flex and 405 flex cable

REMOVAL TOOL

859-022
(M81969/14-06)

PART NUMBER

	795-001S	1-4	M	L
Base P/N	795-001S			
Arrangement No.	*See Table 1* 1-2 *2 contacts* 1-3 *3 contacts* 1-4 *4 contacts* 1-5 *5 contacts* 2-5 *5 contacts, two row* 2-7 *7 contacts, two row* 2-9 *9 contacts, two row*			
Material/ Finish	M Alum/ Electroless Nickel MT Alum/ Nickel-PTFE			
Hardware Option	*See Table 2* L Jackscrews, Hex Head *#8-32, non-removable* K Extended Jackscrews Slot Head *#8-32, non-removable* N No Hardware *.198 (5.0) diameter thru-holes* P Jackposts *#8-32, with nut and lock washer*			

TABLE 1 ARRANGEMENT NUMBER

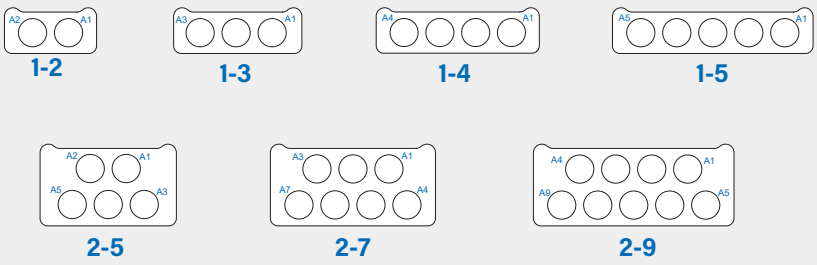
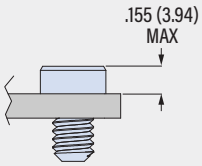
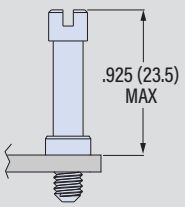


TABLE 2 HARDWARE OPTION

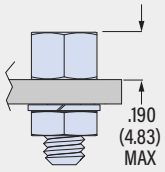
L — **Hex Head Captive Jackscrew, #8-32**



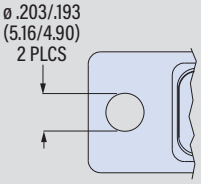
K — **Extended Captive Jackscrew, #8-32**



P — **Jackpost, Nut and Lock washer, #8-32**



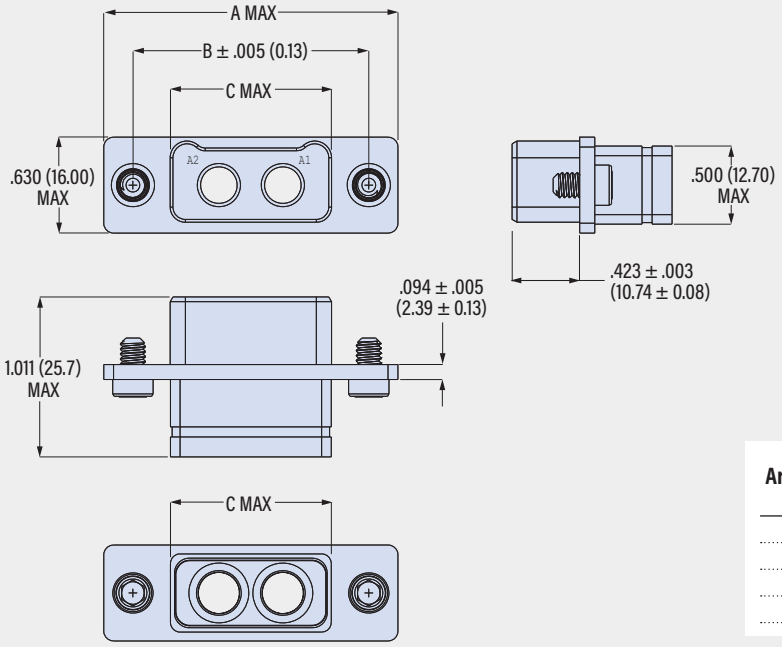
N — **No Jackscrew**

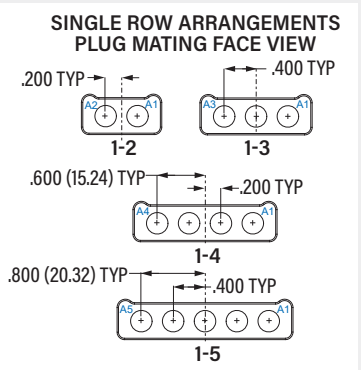


795-001S
Cable Plug, Socket Contacts

- Size #8 Contacts
- All-Aluminum Body
- Two to Nine Ports
- 18 GHz BMB Coax
- Environmental
- Scoop-Proof

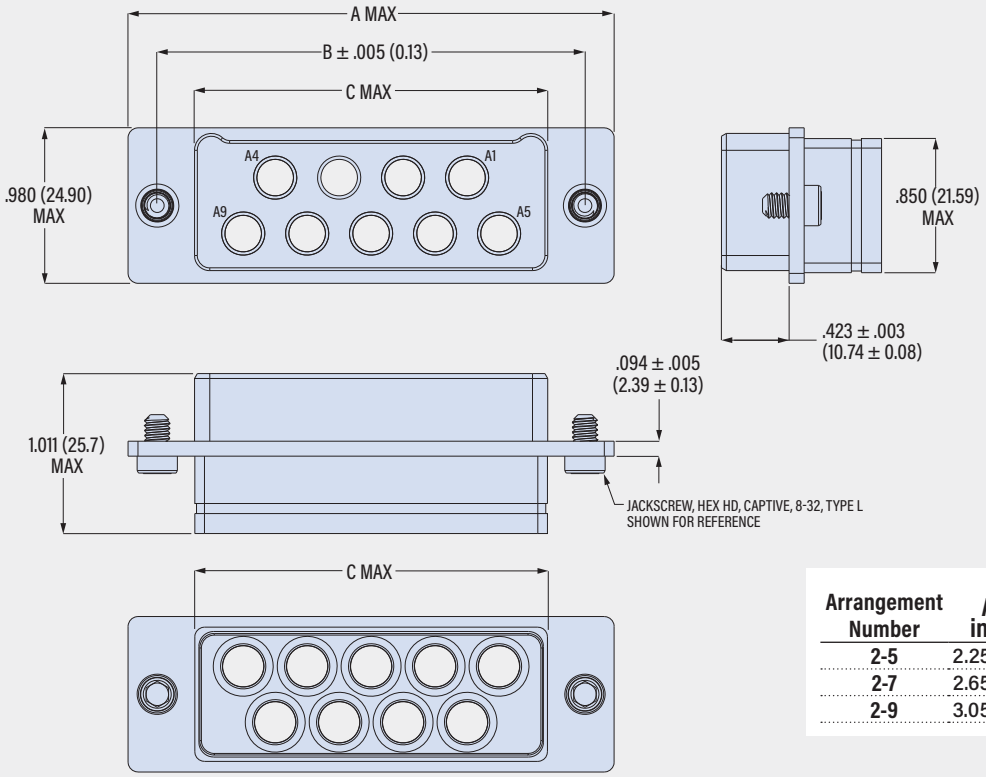
795-001S SINGLE ROW

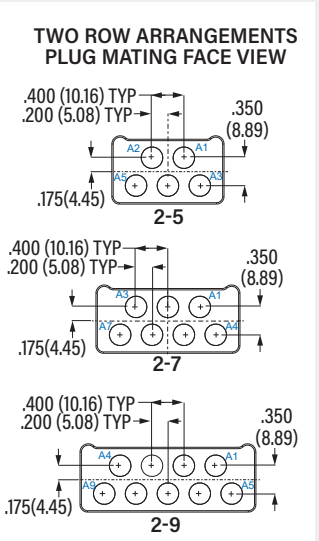




Arrangement Number	A Max in	A Max mm	B ± .005 (0.13) in	B ± .005 (0.13) mm	C Max. in	C Max. mm
1-2	1.850	46.99	1.475	37.47	1.015	25.78
1-3	2.250	57.15	1.875	47.63	1.415	35.94
1-4	1.650	67.31	2.275	57.79	1.815	46.10
1-5	3.050	77.47	2.675	67.95	2.215	56.26

795-001S TWO ROW

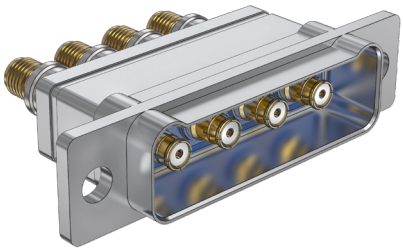




Arrangement Number	A Max in	A Max mm	B ± .005 (0.13) in	B ± .005 (0.13) mm	C Max. in	C Max. mm
2-5	2.250	57.15	1.875	47.63	1.415	35.94
2-7	2.650	67.31	2.275	57.79	1.815	46.10
2-9	3.050	77.47	2.675	67.95	2.215	56.26

795-002P
Cable Receptacle, Pin Contacts

- Size #8 Contacts
- All-Aluminum Body
- Two to Nine Ports
- 18 GHz BMB Coax
- Environmental
- Scoop-Proof



Shown with 50 ohm G-LinkRF coax contacts (sold separately)

Two to nine ports. Size 8 contacts. 795-002 receptacles have one piece 6061-T6 machined aluminum housings. Fluorosilicone face seal and rear grommet provide environmental protection. Size 8 pin contact cavities have beryllium copper retention clips. Use with BMB coax contacts (P/N 852-071, sold separately) or G-LinkRF BMB/SMA coax contacts (852-157, sold separately).

CONSTRUCTION

- **Shell:** aluminum
- **Grommet, interfacial seal:** fluorosilicone
- **Jackscrew, jackpost:** SST, passivated
- **Retainer clips:** copper alloy, unplated

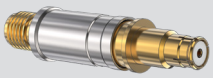
SPECIFICATIONS

- **Operating temperature:** -55 °C to +125 °C
- **Shock:** EIA-364-27 Condition D
- **Vibration:** EIA-364-28 Condition V Letter E
- **Shell-to-shell resistance:** 2.5 milliohms max. with ground spring option

COAX CONTACTS

Not included with 795-002 connector. Sold separately.

G-LinkRF



- Part Number **852-157**
- Integral release sleeve
- Attach SMA plug directly to contact

for Flexible Coax Cable

- Part Number **852-071**
- 18 GHz, solder termination
- Accepts 402-flex and 405 flex cable

REMOVAL TOOL

859-022
(M81969/14-06)

PART NUMBER

	795-002P	1-4	M	E	L
Base P/N	795-002P				
Arrangement No.	*See Table 1* 1-2 *2 contacts* 1-3 *3 contacts* 1-4 *4 contacts* 1-5 *5 contacts* 2-5 *5 contacts, two row* 2-7 *7 contacts, two row* 2-9 *9 contacts, two row*				
Material/ Finish	M Alum/ Electroless Nickel MT Alum/ Nickel-PTFE				
EMI Spring	E EMI Spring N No Spring				
Hardware Option	*See Table 2* L **Jackscrews, Hex Head** *#8-32, non-removable* K **Extended Jackscrews Slot Head** *#8-32, non-removable* N **No Hardware** *.198 (5.0) diameter thru-holes* P **Jackposts** *#8-32, with nut and lock washer*				

TABLE 1 ARRANGEMENT NUMBER

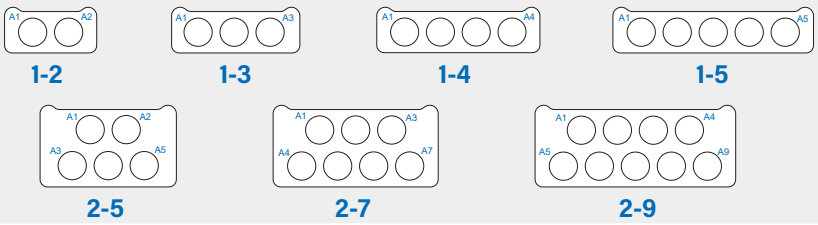
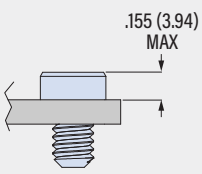
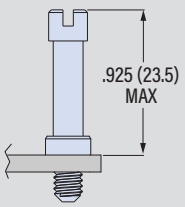


TABLE 2 HARDWARE OPTION

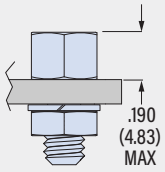
L — **Hex Head Captive Jackscrew, #8-32**



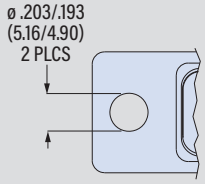
K — **Extended Captive Jackscrew, #8-32**



P — **Jackpost, Nut and Lock washer, #8-32**



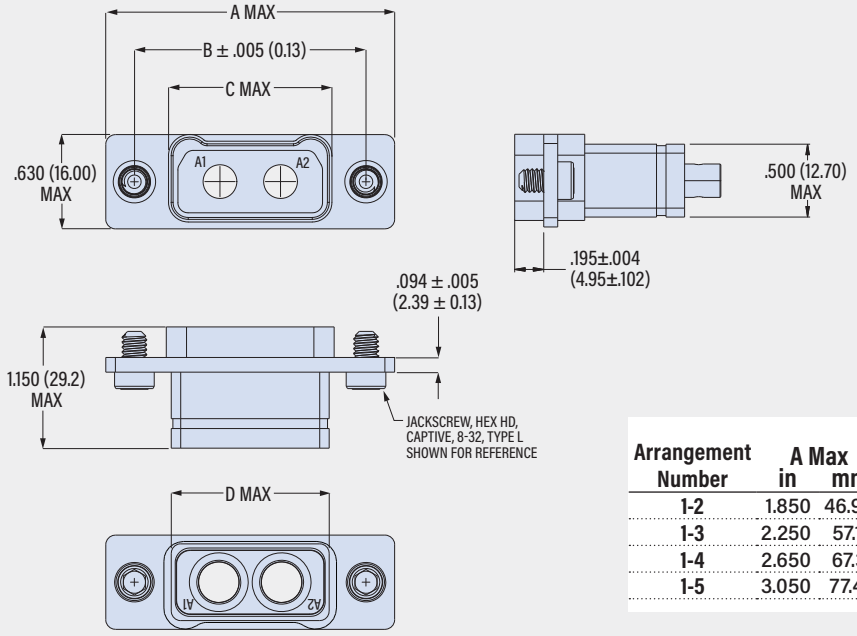
N — **No Jackscrew**

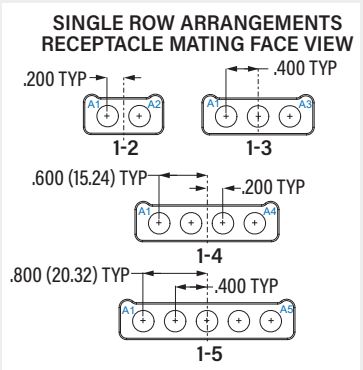


795-002P
Cable Receptacle, Pin Contacts

- Size #8 Contacts
- All-Aluminum Body
- Two to Nine Ports
- 18 GHz BMB Coax
- Environmental
- Scoop-Proof

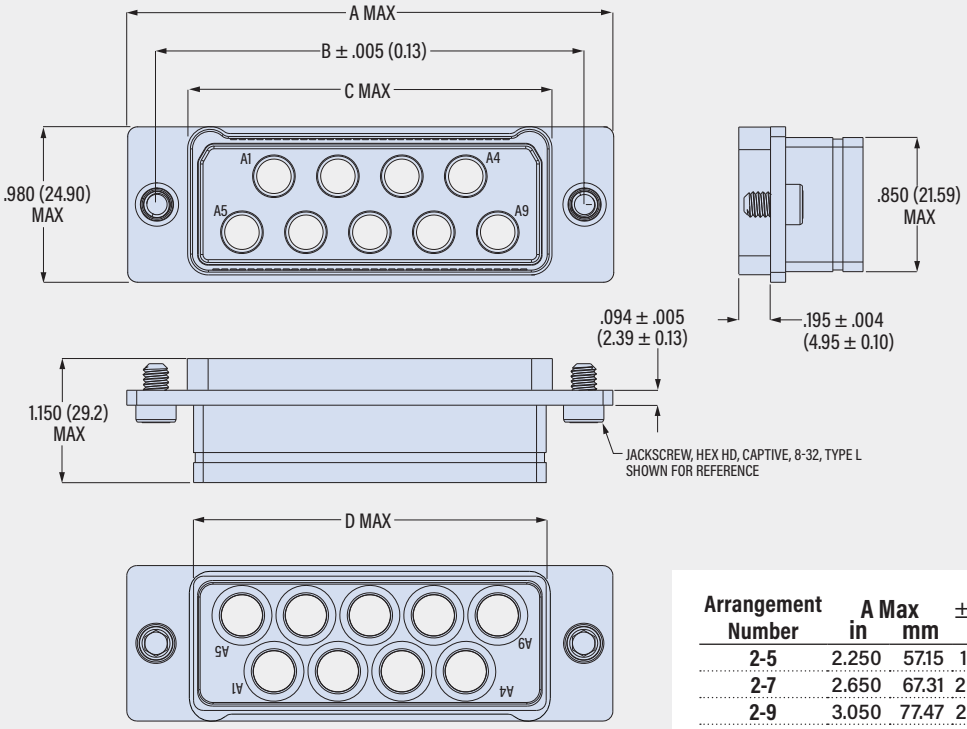
795-002P SINGLE ROW

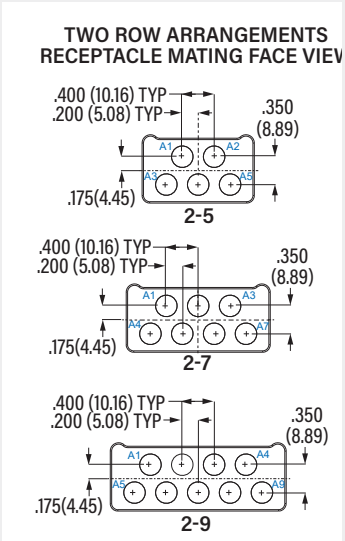




Arrangement Number	A Max in	A Max mm	B ±.005 (0.13) in	B ±.005 (0.13) mm	C Max. in	C Max. mm	D Max. in	D Max. mm
1-2	1.850	46.99	1.475	37.47	1.090	27.69	1.015	25.78
1-3	2.250	57.15	1.875	47.63	1.490	37.85	1.415	35.94
1-4	2.650	67.31	2.275	57.79	1.890	48.01	1.815	46.10
1-5	3.050	77.47	2.675	67.95	2.290	58.17	2.215	56.26

795-002P TWO ROW





Arrangement Number	A Max in	A Max mm	B ±.005 (0.13) in	B ±.005 (0.13) mm	C Max. in	C Max. mm	D Max. in	D Max. mm
2-5	2.250	57.15	1.875	47.63	1.490	37.85	1.415	35.94
2-7	2.650	67.31	2.275	57.79	1.890	48.01	1.815	46.10
2-9	3.050	77.47	2.675	67.95	2.290	58.17	2.215	56.26

795-003S
Panel Mount Plug, Socket Contacts

- Size #8 Contacts
- All-Aluminum Body
- Two to Nine Ports
- 18 GHz BMB Coax
- Environmental
- Scoop-Proof

Shown with 50 ohm G-LinkRF coax contacts (sold separately)

Size 8 contacts. 795-003 panel mount plugs accommodate from two to nine coax socket contacts. Environmentally protected with O-ring and rear grommet. Housing is 6061-T6 machined aluminum. Size 8 socket contact cavities have beryllium copper retention clips. Use with BMB coax contacts (P/N 852-152, ordered separately) or G-LinkRF BMB/SMA coax contacts (852-256, ordered separately).

CONSTRUCTION

- **Shell:** aluminum
- **Grommet, face seal:** fluorosilicone
- **Jackpost:** SST, passivated
- **Retainer clips:** copper alloy, unplated
- **O-ring:** fluorosilicone, filled with silver-plated aluminum
- **EMI spring:** beryllium copper, nickel plated

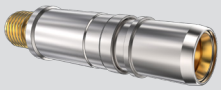
SPECIFICATIONS

- **Operating temperature:** -55 °C to +125 °C
- **Shock:** EIA-364-27 Condition D
- **Vibration:** EIA-364-28 Condition V Letter E
- **Shell-to-shell resistance:** 2.5 milliohms max. with ground spring option

COAX CONTACTS

Not included with 795-003 connector. Sold separately.

G-LinkRF



- Part Number **852-256**
- Integral release sleeve
- Attach SMA plug directly to contact

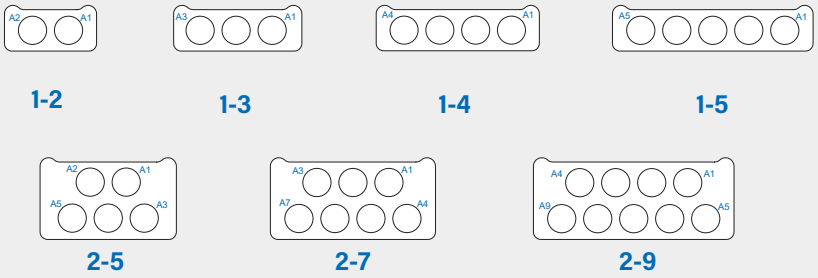
for Flexible Coax Cable

- Part Number **852-152**
- 18 GHz, solider termination
- Accepts 402-flex and 405 flex cable

PART NUMBER

	795-003S	1-4	M	P	C
Base P/N	795-003S				
Arrangement No.	*See Table 1* 1-2 *2 contacts* 1-3 *3 contacts* 1-4 *4 contacts* 1-5 *5 contacts* 2-5 *5 contacts, two row* 2-7 *7 contacts, two row* 2-9 *9 contacts, two row*				
Material/ Finish	M Alum/ Electroless Nickel MT Alum/ Nickel-PTFE				
Jackpost	P Jackpost *#8-32, Non-Removable* N No Jackpost				
O-ring	C Conductive O-ring N No O-ring				

TABLE 1 ARRANGEMENT NUMBER



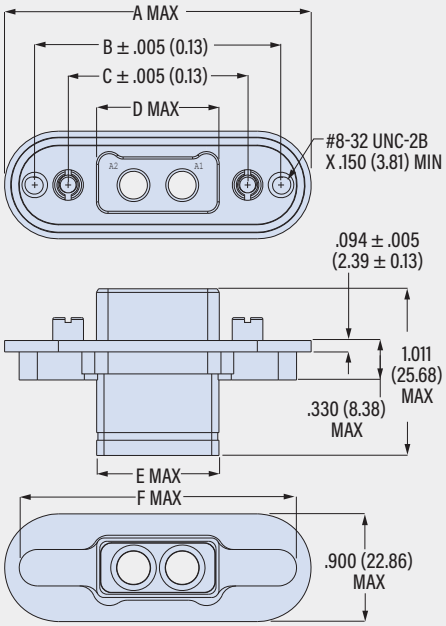
REMOVAL TOOL

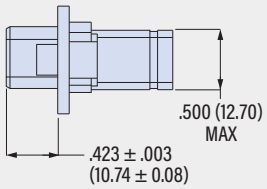
859-022
(M81969/14-06)

795-003S
Panel Mount Plug, Socket Contacts

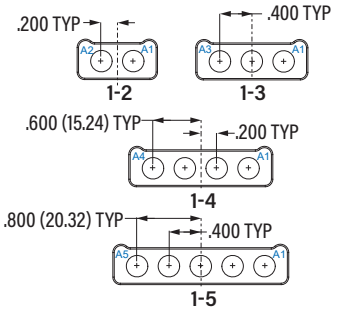
- Size #8 Contacts
- All-Aluminum Body
- Two to Nine Ports
- 18 GHz BMB Coax
- Environmental
- Scoop-Proof

795-003S SINGLE ROW



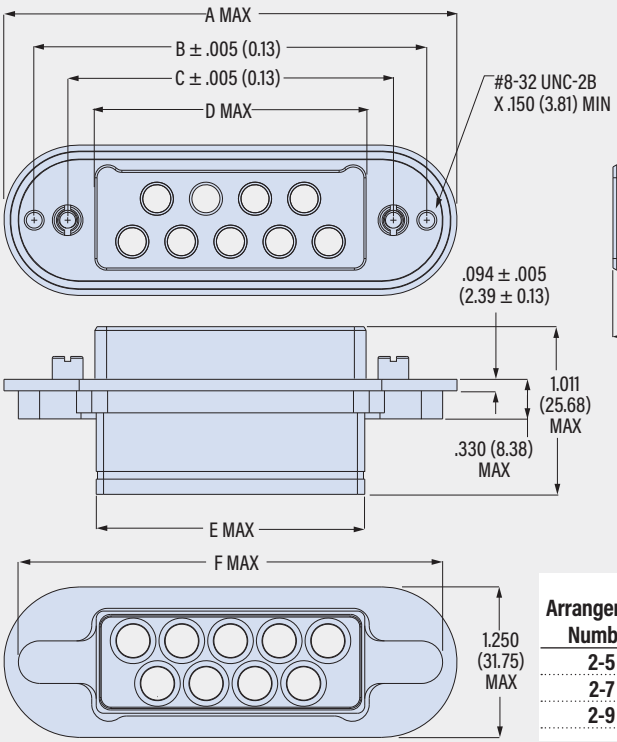


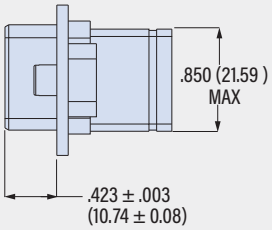
SINGLE ROW ARRANGEMENTS
PLUG MATING FACE VIEW



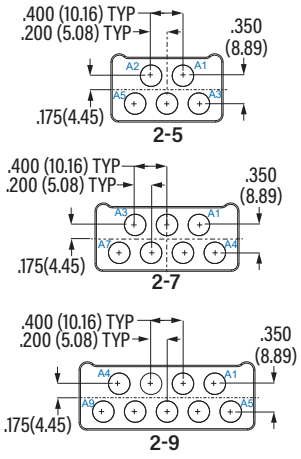
Arrangement Number	A Max		B ± .005 (0.13)		C ± .005 (0.13)		D Max		E Max		F Max	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
1-2	2.550	64.77	2.024	51.41	1.475	37.47	1.015	25.78	1.015	25.78	2.295	58.29
1-3	2.950	74.93	2.424	61.57	1.875	47.63	1.415	35.94	1.415	35.94	2.695	68.45
1-4	3.350	85.09	2.824	71.73	2.275	57.79	1.815	46.10	1.815	46.10	3.095	78.61
1-5	3.750	95.25	3.224	81.89	2.675	67.95	2.215	56.26	2.215	56.26	3.495	88.77

795-003S TWO ROW





TWO ROW ARRANGEMENTS
PLUG MATING FACE VIEW



Arrangement Number	A Max		B ± .005 (0.13)		C ± .005 (0.13)		D Max		E Max		F Max	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
2-5	2.950	74.93	2.424	61.57	1.875	47.63	1.415	35.94	1.415	35.94	2.695	68.45
2-7	3.350	85.09	2.824	71.73	2.275	57.79	1.815	46.10	1.815	46.10	3.095	78.61
2-9	3.750	95.25	3.224	81.89	2.675	67.95	2.215	56.26	2.215	56.26	3.495	88.77

795-004P
Panel Mount Receptacle, Pin Contacts

- Size #8 Contacts
- All-Aluminum Body
- Two to Nine Ports
- 18 GHz Coax
- Environmental
- Scoop-Proof

Shown with 50 ohm G-LinkRF coax contacts (sold separately)

Size 8 contacts. 795-004 panel mount receptacles accommodate from two to nine coax contacts. Environmentally protected with O-ring, fluorosilicone face seal and rear grommet. Housing is 6061-T6 machined aluminum. Size 8 socket contact cavities have beryllium copper retention clips. Use with BMB coax contacts (P/N 852-071, ordered separately) or **G-Link*RF*** BMB/SMA coax contacts (852-157, ordered separately).

CONSTRUCTION

- **Shell:** aluminum
- **Grommet, face seal:** fluorosilicone
- **Jackpost:** SST, passivated
- **Contact retainer clip:** copper alloy, unplated
- O-ring: fluorosilicone, filled with silver-plated aluminum
- EMI spring: beryllium copper, nickel plated

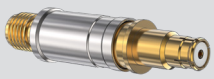
SPECIFICATIONS

- **Operating temperature:** -55 °C to +125 °C
- **Shock:** EIA-364-27 Condition D
- **Vibration:** EIA-364-28 Condition V Letter E
- **Shell-to-shell resistance:** 2.5 milliohms max. with ground spring option

COAX CONTACTS

Not included with 795-004 connector. Sold separately.

G-LinkRF



- Part Number **852-157**
- Integral release sleeve
- Attach SMA plug directly to contact

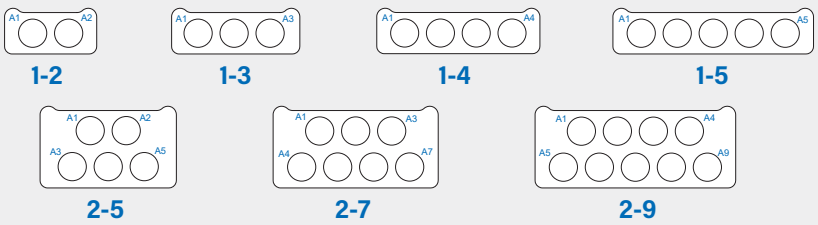
for Flexible Coax Cable

- Part Number **852-071**
- 18 GHz, solder termination
- Accepts 402-flex and 405 flex cable

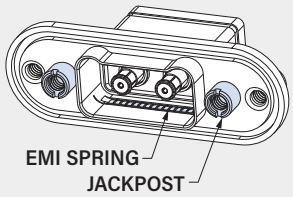
PART NUMBER

	795-004P	1-4	M	E	P	C
Base P/N	795-004P					
Arrangement No.	*See Table 1* 1-2 *2 contacts* 1-3 *3 contacts* 1-4 *4 contacts* 1-5 *5 contacts* 2-5 *5 contacts, two row* 2-7 *7 contacts, two row* 2-9 *9 contacts, two row*					
Material/ Finish	M Alum/ Electroless Nickel MT Alum/ Nickel-PTFE					
EMI Spring	E EMI Spring N No Spring					
Jackpost	P Jackpost *#8-32, Non-Removable* N No Jackpost					
O-ring	C Conductive O-ring N No O-ring					

TABLE 1 ARRANGEMENT NUMBER



JACKPOST AND EMI SPRING



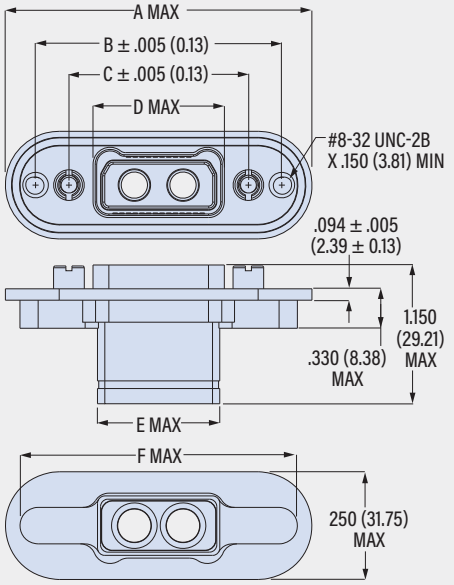
REMOVAL TOOL

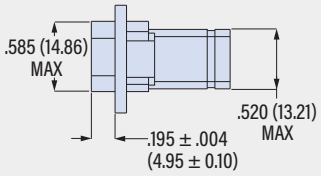
859-022
(M81969/14-06)

795-004P
Panel Mount Receptacle, Pin Contacts

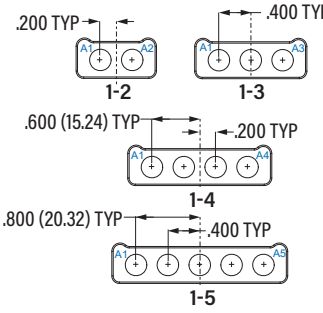
- Size #8 Contacts
- All-Aluminum Body
- Two to Nine Ports
- 18 GHz Coax
- Environmental
- Scoop-Proof

795-004P SINGLE ROW



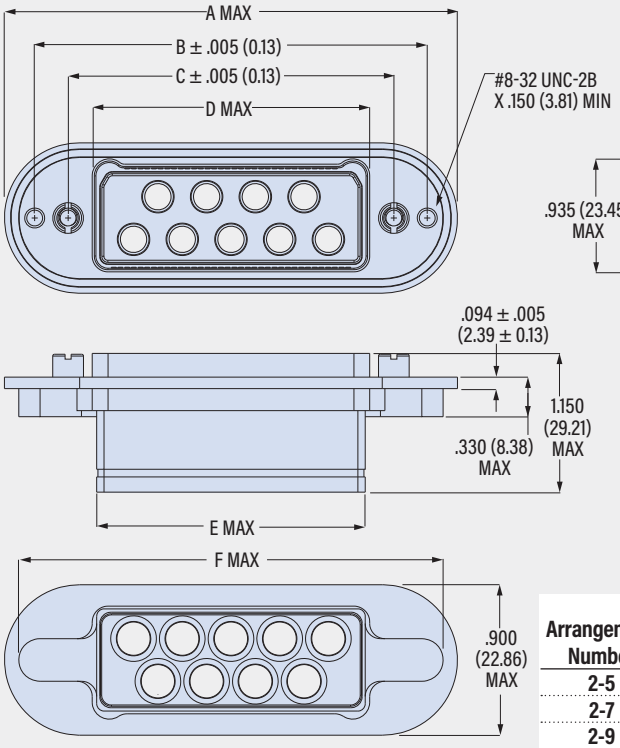


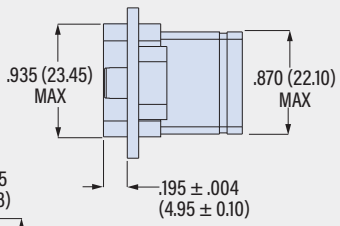
SINGLE ROW ARRANGEMENTS
RECEPTACLE MATING FACE VIEW



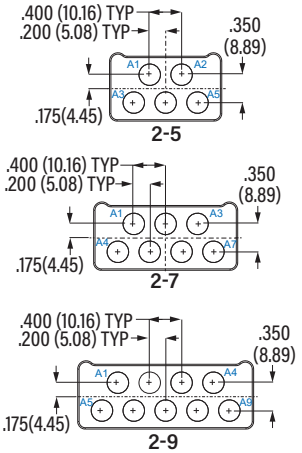
Arrangement Number	A Max in	A Max mm	B ± .005 (0.13) in	B ± .005 (0.13) mm	C ± .005 (0.13) in	C ± .005 (0.13) mm	D Max in	D Max mm	E Max in	E Max mm	F Max in	F Max mm
1-2	2.625	66.68	2.099	53.31	1.475	37.47	1.090	27.69	1.015	25.78	2.370	60.20
1-3	3.025	76.84	2.499	63.47	1.875	47.63	1.490	37.85	1.415	35.94	2.770	70.36
1-4	3.425	87.00	2.899	74.63	2.275	57.79	1.890	48.01	1.815	46.10	3.170	80.52
1-5	3.825	95.25	3.299	83.79	2.675	67.95	2.290	58.17	2.215	56.26	3.570	90.68

795-004P TWO ROW





TWO ROW ARRANGEMENTS
RECEPTACLE MATING FACE VIEW



Arrangement Number	A Max in	A Max mm	B ± .005 (0.13) in	B ± .005 (0.13) mm	C ± .005 (0.13) in	C ± .005 (0.13) mm	D Max in	D Max mm	E Max in	E Max mm	F Max in	F Max mm
2-5	3.025	76.84	2.499	63.47	1.875	47.63	1.490	37.85	1.415	35.94	2.770	70.36
2-7	3.425	87.00	2.899	73.63	2.275	57.79	1.890	48.01	1.815	46.10	3.170	80.52
2-9	3.825	97.16	3.299	83.79	2.675	67.95	2.290	58.17	2.215	56.26	3.570	90.68

795-005S
Cable Plug, Socket Contacts

- Size #12 Contacts
- All-Aluminum Body
- Three to Eleven Ports
- 40 GHz SMPM Coax
- Environmental
- Scoop-Proof

Three to eleven ports. Size 12 contacts. 795-005 plugs have machined aluminum housings and fluorosilicone grommet for environmental protection. Size 12 socket contact cavities have beryllium copper retention clips. Use with 40 GHz SMPM coax contacts (P/N 852-100, ordered separately).

CONSTRUCTION
- **Shell:** aluminum
- **Grommet:** fluorosilicone
- **Jackscrew:** SST, passivated
- **Contact retainer clip:** copper alloy, unplated

SPECIFICATIONS
- **Operating temperature:** -55 °C to +125 °C
- **Shock:** EIA-364-27 Condition D
- **Vibration:** EIA-364-28 Condition V Letter E
- **Shell-to-shell resistance:** 2.5 milliohms max. with ground spring option

COAX CONTACTS
Not included with 795-005 connector. Sold separately.

for Flexible Coax Cable

- Part Number 852-100
- 40 GHz, solder termination
- Accepts 405 flex, 120s semiflex, and molex cable

PART NUMBER

	795-005S	1-2	M	L
Base P/N	795-005S			
Arrangement No.	*See Table 1* 1-3 *3 contacts* 1-5 *5 contacts* 1-6 *6 contacts* 2-5 *5 contacts, two row* 2-7 *7 contacts, two row* 2-9 *9 contacts, two row* 2-11 *11 contacts, two row*			
Material/ Finish	M Alum/ Electroless Nickel MT Alum/ Nickel-PTFE			
Hardware Option	*See Table 2* L Jackscrews, Socket Head *#8-32, non-removable* K Extended Jackscrews Slot Head *#8-32, non-removable* S Low-Profile Socket Head Screwlock *#8-32, non-removable* T Extended Screwlock, Knurled Head *#8-32, non-removable* P Jackposts *#8-32, with nut and lock washer* N No Hardware *.198 (5.0) diameter thru-holes*			

TABLE 1 ARRANGEMENT NUMBER

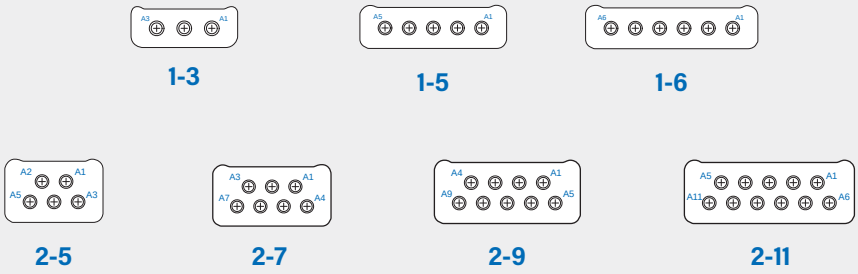
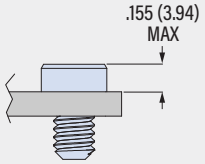
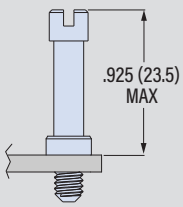


TABLE 2 HARDWARE OPTION

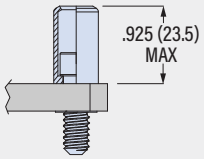
L Socket Head Captive Jackscrew, #8-32



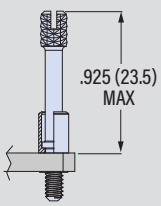
K Extended Captive Jackscrew, #8-32



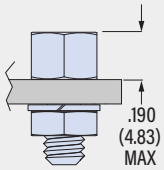
S Low-Profile Socket Head Captive Screwlock



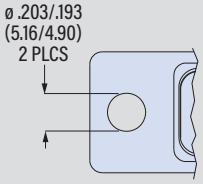
T Extended Captive Screwlock, Knurled Head



P Jackpost, Nut and Lock washer, #8-32



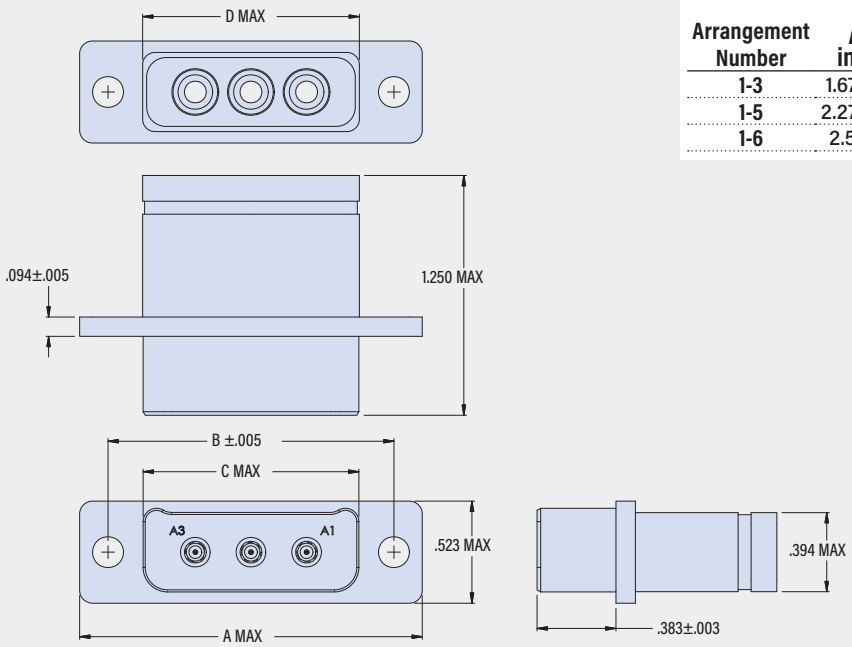
N No Jackscrew



795-005S
Cable Plug, Socket Contacts

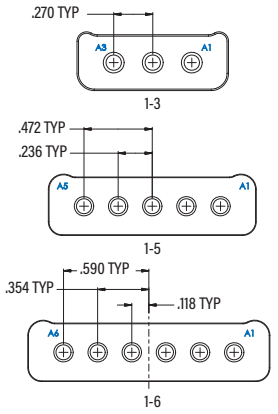
- Size #12 Contacts
- All-Aluminum Body
- Three to Eleven Ports
- 40 GHz SMPM Coax
- Environmental
- Scoop-Proof

795-005S SINGLE ROW

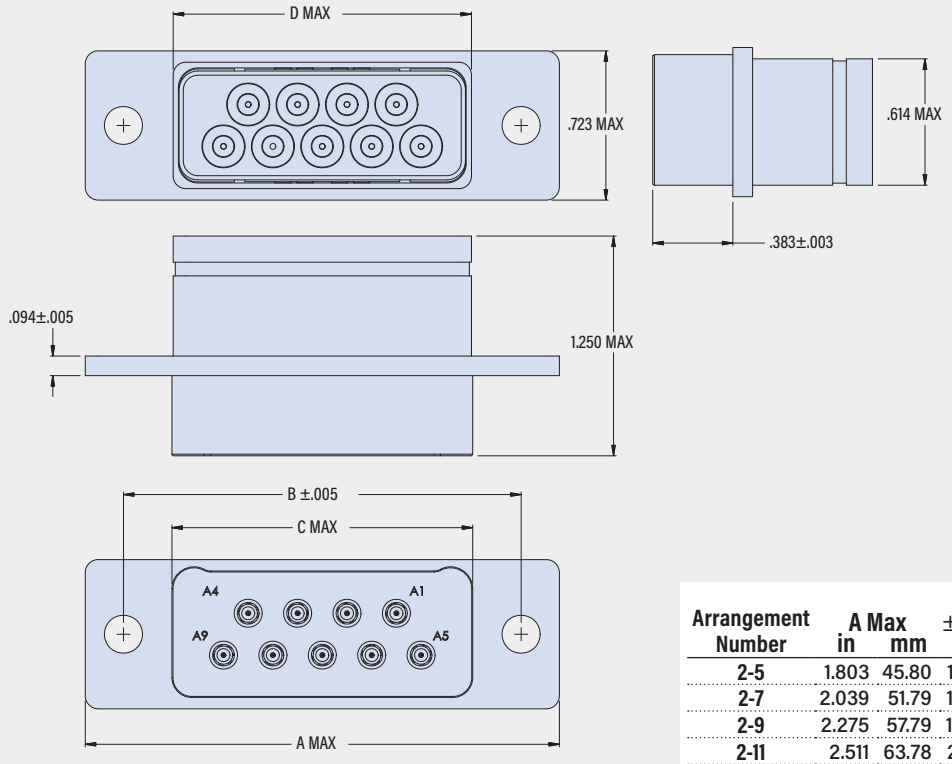


Arrangement Number	A Max in	A Max mm	B ±.005 (0.13) in	B ±.005 (0.13) mm	C Max. in	C Max. mm	D Max. in	D Max. mm
1-3	1.673	42.49	1.388	35.26	1.057	26.85	1.062	26.97
1-5	2.275	57.79	1.900	48.26	1.447	36.75	1.435	36.45
1-6	2.511	63.78	2.146	54.51	1.683	42.75	1.671	42.44

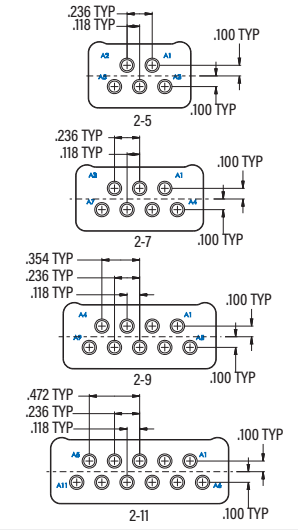
SINGLE ROW ARRANGEMENTS
PLUG MATING FACE VIEW



795-005S TWO ROW



TWO ROW ARRANGEMENTS
PLUG MATING FACE VIEW



Arrangement Number	A Max in	A Max mm	B ±.005 (0.13) in	B ±.005 (0.13) mm	C Max. in	C Max. mm	D Max. in	D Max. mm
2-5	1.803	45.80	1.428	36.27	.975	24.77	.963	24.66
2-7	2.039	51.79	1.664	42.27	1.211	30.76	1.199	30.46
2-9	2.275	57.79	1.900	48.26	1.447	36.75	1.435	36.45
2-11	2.511	63.78	2.136	54.25	1.683	42.75	1.671	42.44

795-006P
Cable Receptacle, Pin Contacts

- Size #12 Contacts
- All-Aluminum Body
- Three to Eleven Ports
- 40 GHz SMPM Coax
- Environmental
- Scoop-Proof

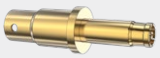
Three to eleven ports. Size 12 contacts. 795-006 receptacles have machined aluminum housings and fluorosilicone grommet for environmental protection. Size 12 pin contact cavities have beryllium copper retention clips. Use with 40 GHz SMPM coax contacts (P/N 852-099, ordered separately).

CONSTRUCTION
- **Shell:** aluminum
- **Grommet:** fluorosilicone
- **Jackscrew:** SST, passivated
- **Contact retainer clip:** copper alloy, unplated

SPECIFICATIONS
- **Operating temperature:** -55 °C to +125 °C
- **Shock:** EIA-364-27 Condition D
- **Vibration:** EIA-364-28 Condition V Letter E
- **Shell-to-shell resistance:** 2.5 milliohms max. with ground spring option

COAX CONTACTS
Not included with 795-005 connector. Sold separately.

for Flexible Coax Cable



- Part Number 852-099
- 40 GHz, solder termination
- Accepts 405 flex, 120s semiflex, and molex cable

PART NUMBER

	795-006P	1-2	M	L
Base P/N	795-006P			
Arrangement No.	*See Table 1* 1-3 *3 contacts* 1-5 *5 contacts* 1-6 *6 contacts* 2-5 *5 contacts, two row* 2-7 *7 contacts, two row* 2-9 *9 contacts, two row* 2-11 *11 contacts, two row*			
Material/ Finish	M Alum/ Electroless Nickel MT Alum/ Nickel-PTFE			
Hardware Option	*See Table 2* L **Jackscrews, Socket Head** *#8-32, non-removable* K **Extended Jackscrews Slot Head** *#8-32, non-removable* S **Low-Profile Socket Head Screwlock** *#8-32, non-removable* T **Extended Screwlock, Knurled Head** *#8-32, non-removable* P **Jackposts** *#8-32, with nut and lock washer* N **No Hardware** *.198 (5.0) diameter thru-holes*			

TABLE 1 ARRANGEMENT NUMBER

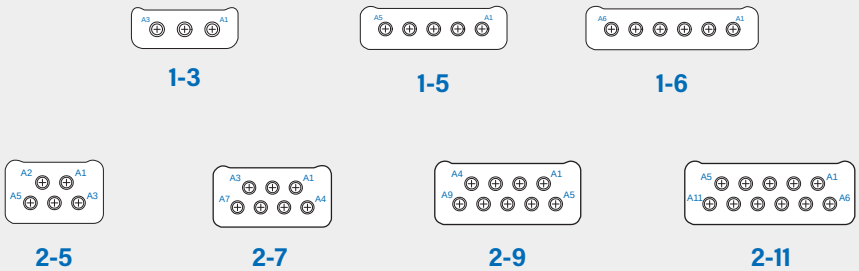
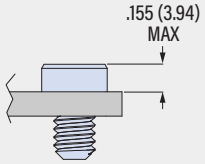
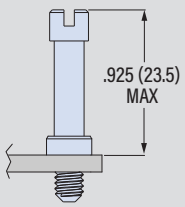


TABLE 2 HARDWARE OPTION

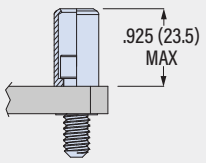
L Socket Head Captive Jackscrew, #8-32



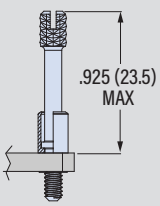
K Extended Captive Jackscrew, #8-32



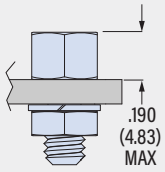
S Low-Profile Socket Head Captive Screwlock



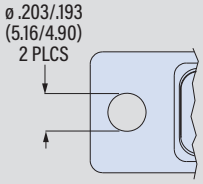
T Extended Captive Screwlock, Knurled Head



P Jackpost, Nut and Lock washer, #8-32



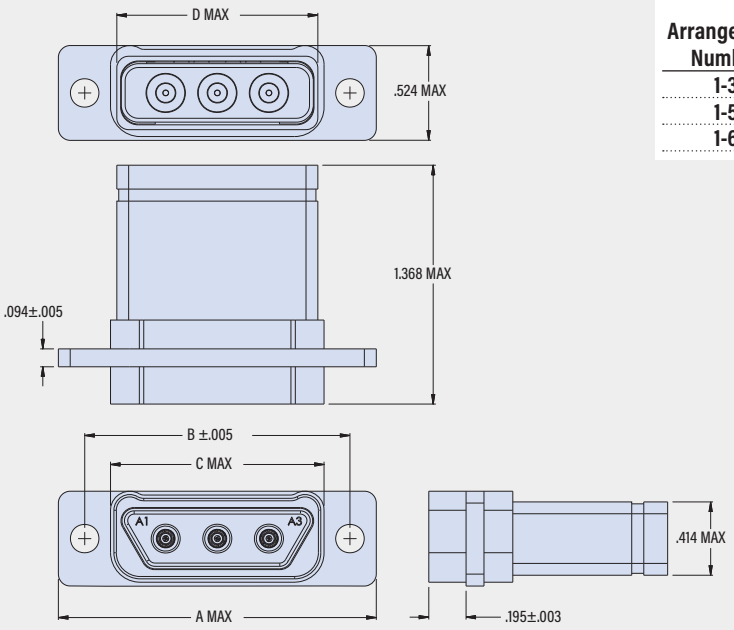
N No Jackscrew



795-006P
Cable Receptacle, Pin Contacts

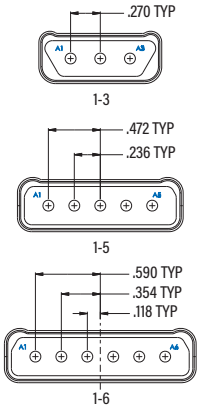
- Size #12 Contacts
- All-Aluminum Body
- Three to Eleven Ports
- 40 GHz SMPM Coax
- Environmental
- Scoop-Proof

795-006P SINGLE ROW

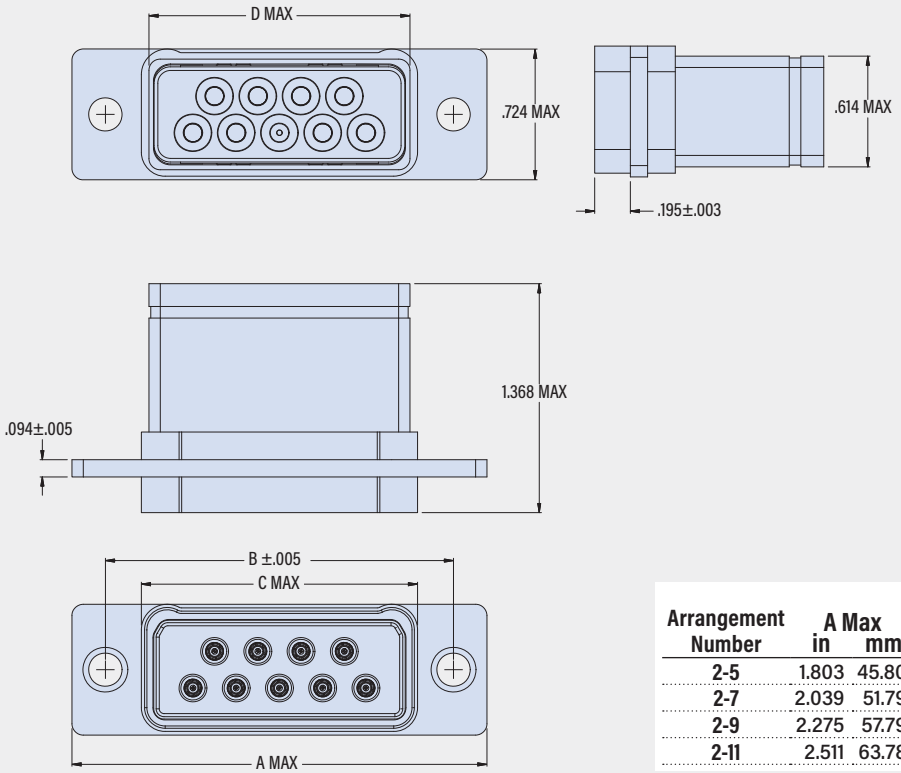


Arrangement Number	A Max in	A Max mm	B ±.005 (0.13) in	B ±.005 (0.13) mm	C Max. in	C Max. mm	D Max. in	D Max. mm
1-3	1.673	42.49	1.388	35.26	1.057	26.85	1.062	26.97
1-5	2.275	57.79	1.900	48.26	1.447	36.75	1.435	36.45
1-6	2.511	63.78	2.136	54.25	1.683	42.75	1.671	42.44

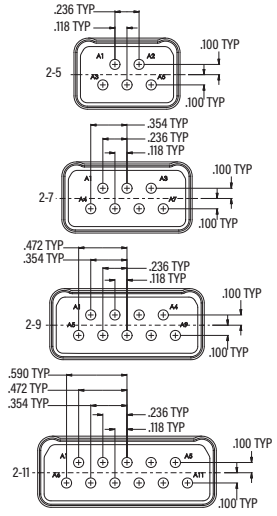
SINGLE ROW ARRANGEMENTS
RECEPTACLE MATING FACE VIEW



795-006P TWO ROW



TWO ROW ARRANGEMENTS
RECEPTACLE MATING FACE VIEW



Arrangement Number	A Max in	A Max mm	B ±.005 (0.13) in	B ±.005 (0.13) mm	C Max. in	C Max. mm	D Max. in	D Max. mm
2-5	1.803	45.80	1.428	36.27	1.045	26.54	.963	24.66
2-7	2.039	51.79	1.664	42.27	1.281	32.54	1.199	30.46
2-9	2.275	57.79	1.900	48.26	1.517	38.53	1.435	36.45
2-11	2.511	63.78	2.136	54.25	1.753	44.56	1.671	42.44

795-007S
Panel-Mount Plug, Socket Contacts

- Size #12 Contacts
- All-Aluminum Body
- Three to Eleven Ports
- 40 GHz SMPM Coax
- Environmental
- Scoop-Proof

Size 8 contacts. 795-007 panel mount plugs accommodate from three to eleven coax socket contacts. Environmentally protected with O-ring and rear grommet. Housing is 6061-T6 machined aluminum. Size 12 socket contact cavities have beryllium copper retention clips. Use with SMPM coax contacts (P/N 852-100, ordered separately).

CONSTRUCTION

- **Shell:** aluminum
- **Grommet:** fluorosilicone
- **Jackscrew:** SST, passivated
- **Contact retainer clip:** copper alloy, unplated

SPECIFICATIONS

- **Operating temperature:** -55 °C to +125 °C
- **Shock:** EIA-364-27 Condition D
- **Vibration:** EIA-364-28 Condition V Letter E
- **Shell-to-shell resistance:** 2.5 milliohms max. with ground spring option

COAX CONTACTS

Not included with 795-007 connector. Sold separately.

for Flexible Coax Cable

- Part Number 852-100
- 40 GHz, solder termination
- Accepts 405 flex, 120s semiflex, and molex cable

PART NUMBER

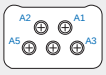
	795-007S	1-3	M	P	N
Base P/N	795-007S				
Arrangement No.	*See Table 1* 1-3 *3 contacts* 1-5 *5 contacts* 1-6 *6 contacts* 2-5 *5 contacts, two row* 2-7 *7 contacts, two row* 2-9 *9 contacts, two row* 2-11 *11 contacts, two row*				
Material/ Finish	M Alum/ Electroless Nickel MT Alum/ Nickel-PTFE				
Jackpost	P Jackpost *#8-32, Non-Removable* N No Jackpost				
O-ring	P Fluorosilicone O-Ring C Conductive O-ring N No O-ring S Metal EMI Spring (non-environmental)				

TABLE 1 ARRANGEMENT NUMBER


1-3


1-5


1-6


2-5


2-7

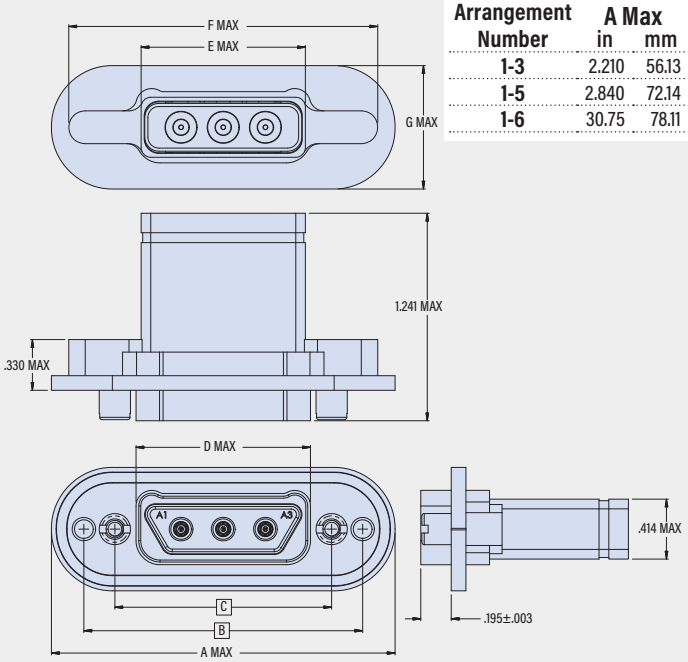

2-9


2-11

795-007S
Panel-Mount Plug, Socket Contacts

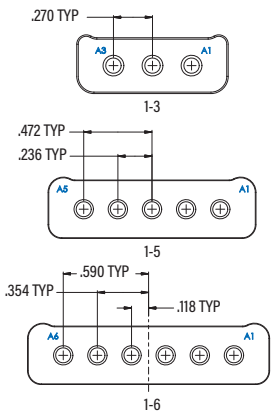
- Size #12 Contacts
- All-Aluminum Body
- Three to Eleven Ports
- 40 GHz SMPM Coax
- Environmental
- Scoop-Proof

795-007S SINGLE ROW

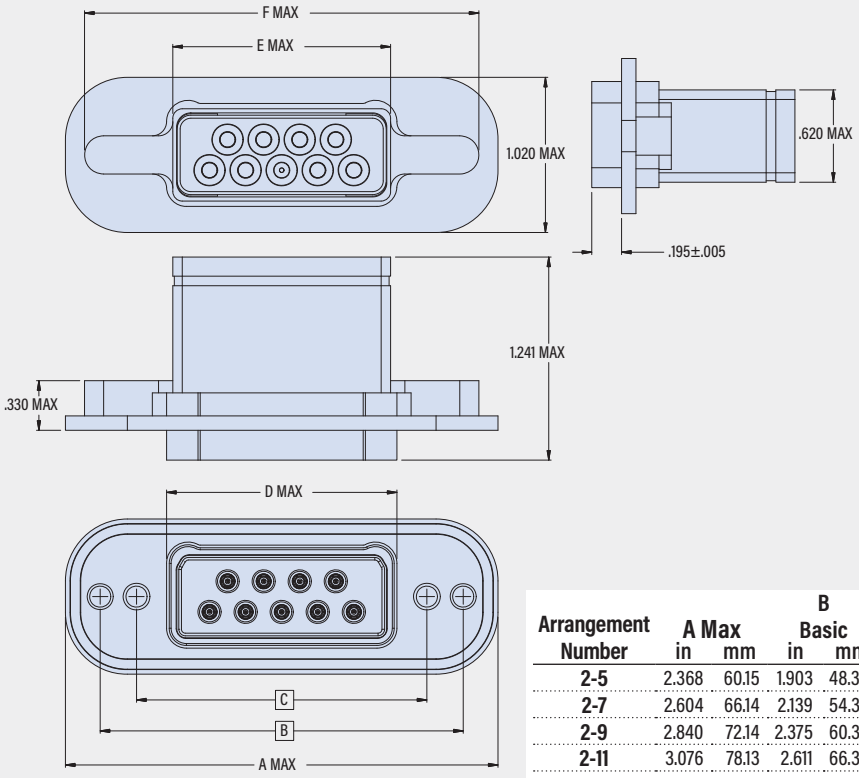


Arrangement Number	A Max in	A Max mm	B Basic in	B Basic mm	C Basic in	C Basic mm	D Max in	D Max mm	E Max in	E Max mm	F Max in	F Max mm	G Max in	G Max mm
1-3	2.210	56.13	1.785	45.34	1.388	35.25	1.127	28.63	1.090	27.69	1.983	50.37	.800	20.32
1-5	2.840	72.14	2.375	60.33	1.900	48.26	1.516	38.51	1.440	36.58	2.590	65.79	.820	20.83
1-6	30.75	78.11	2.611	66.32	2.136	54.25	1.752	44.50	1.675	42.54	2.826	71.18	.820	20.83

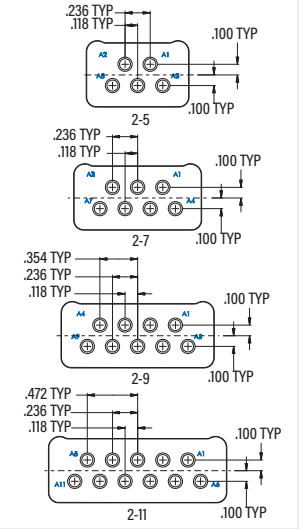
SINGLE ROW ARRANGEMENTS
PLUG MATING FACE VIEW



795-007S TWO ROW



TWO ROW ARRANGEMENTS
PLUG MATING FACE VIEW



Arrangement Number	A Max in	A Max mm	B Basic in	B Basic mm	C Basic in	C Basic mm	D Max in	D Max mm	E Max in	E Max mm	F Max in	F Max mm
2-5	2.368	60.15	1.903	48.34	1.428	36.27	1.044	26.52	.968	24.59	2.118	53.80
2-7	2.604	66.14	2.139	54.33	1.664	42.27	1.280	32.51	1.204	30.58	2.354	59.79
2-9	2.840	72.14	2.375	60.33	1.900	28.26	1.516	38.51	1.440	36.58	2.590	65.79
2-11	3.076	78.13	2.611	66.32	2.136	54.25	1.752	44.50	1.676	42.57	2.826	71.78

795-008P
Panel Mount Receptacle, Pin Contacts

- Size #12 Contacts
- All-Aluminum Body
- Three to Eleven Ports
- 40 GHz SMPM Coax
- Environmental
- Scoop-Proof

Three to eleven ports. Size 12 contacts. 795-008 receptacles have machined aluminum housings and fluorosilicone grommet for environmental protection. Size 12 pin contact cavities have beryllium copper retention clips. Use with 40 GHz SMPM coax contacts (P/N 852-099, ordered separately).

CONSTRUCTION

- **Shell:** aluminum
- **Grommet, face seal:** fluorosilicone
- **Jackpost:** SST, passivated
- **Contact retainer clip:** copper alloy, unplated
- O-ring: fluorosilicone, filled with silver-plated aluminum
- EMI spring: beryllium copper, nickel plated

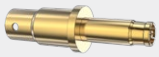
SPECIFICATIONS

- **Operating temperature:** -55 °C to +125 °C
- **Shock:** EIA-364-27 Condition D
- **Vibration:** EIA-364-28 Condition V Letter E
- **Shell-to-shell resistance:** 2.5 milliohms max. with ground spring option

COAX CONTACTS

Not included with 795-008 connector. Sold separately.

for Flexible Coax Cable



- Part Number 852-099
- 40 GHz, solder termination
- Accepts 405 flex, 120s semiflex, and molex cable

PART NUMBER

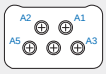
	795-008P	1-3	M	E	P	C
Base P/N	795-008P					
Arrangement No.	*See Table 1* 1-3 *3 contacts* 1-5 *5 contacts* 1-6 *6 contacts* 2-5 *5 contacts, two row* 2-7 *7 contacts, two row* 2-9 *9 contacts, two row* 2-11 *11 contacts, two row*					
Material/ Finish	M Alum/ Electroless Nickel MT Alum/ Nickel-PTFE					
EMI Spring	E EMI Spring N No Spring					
Jackpost	P Jackpost *#8-32, Non-Removable* N No Jackpost					
O-ring	C Conductive O-ring N No O-ring					

TABLE 1 ARRANGEMENT NUMBER

1-3

1-5

1-6



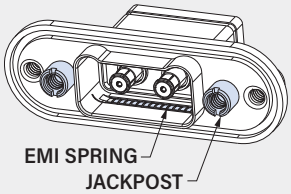
2-5

2-7

2-9

2-11

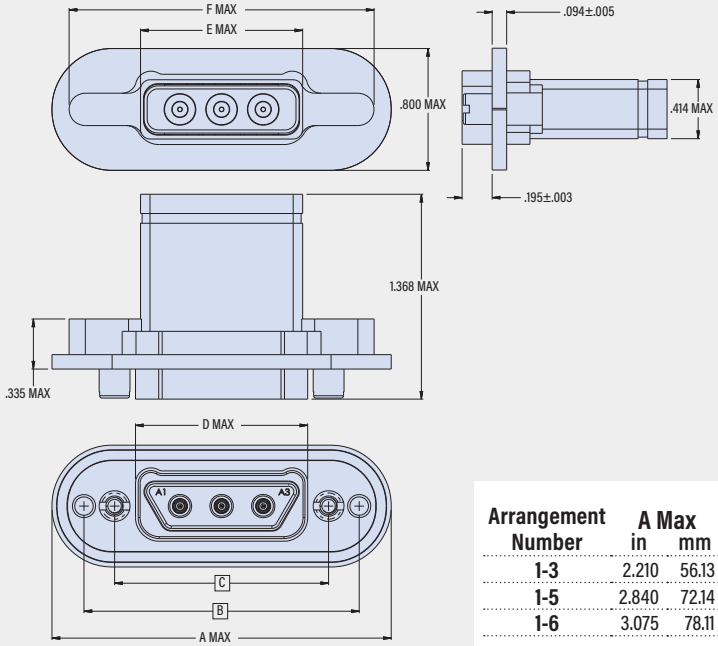
JACKPOST AND EMI SPRING



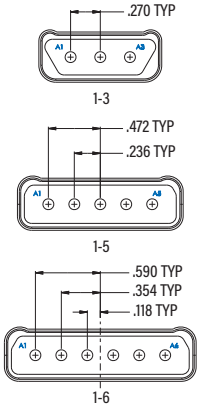
795-008P
Panel Mount Receptacle, Pin Contacts

- Size #12 Contacts
- All-Aluminum Body
- Three to Eleven Ports
- 40 GHz SMPM Coax
- Environmental
- Scoop-Proof

795-008P SINGLE ROW

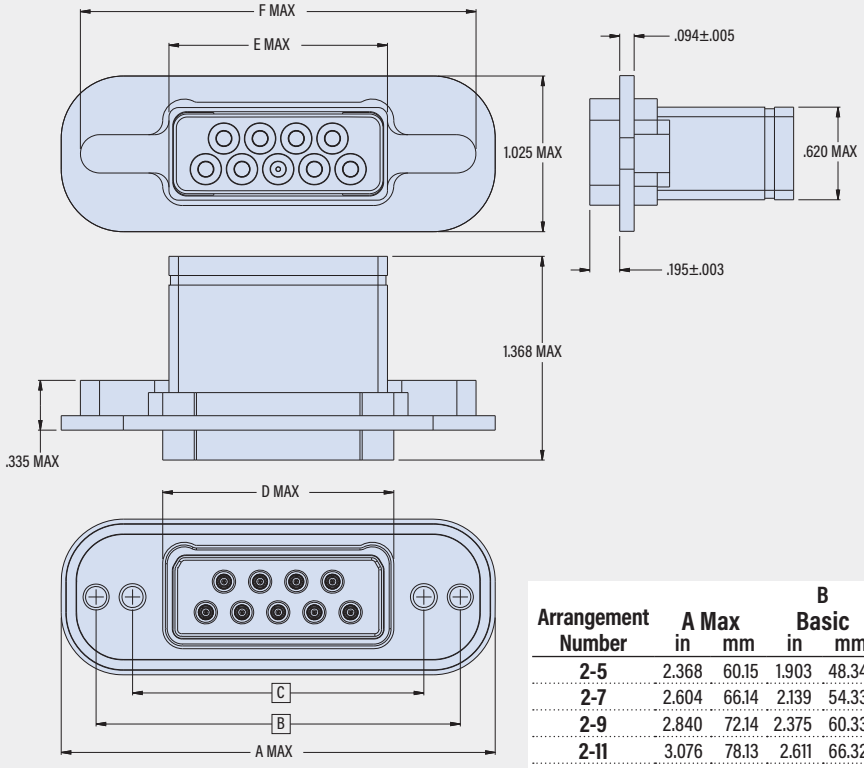


SINGLE ROW ARRANGEMENTS
RECEPTACLE MATING FACE VIEW

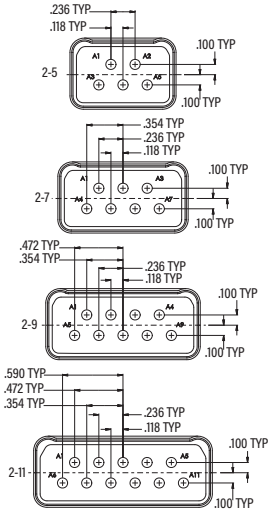


Arrangement Number	A Max		B Basic		C Basic		D Max		E Max		F Max	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
1-3	2.210	56.13	1.785	45.34	1.388	35.25	1.127	28.63	1.090	27.69	1.983	50.37
1-5	2.840	72.14	2.375	60.33	1.900	48.26	1.516	38.51	1.440	36.58	2.590	65.79
1-6	3.075	78.11	2.611	66.32	2.136	54.25	1.752	44.50	1.675	42.54	2.826	71.78

795-008P TWO ROW



TWO ROW ARRANGEMENTS
RECEPTACLE MATING FACE VIEW



Arrangement Number	A Max		B Basic		C Basic		D Max		E Max		F Max	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
2-5	2.368	60.15	1.903	48.34	1.428	36.27	1.044	26.52	.968	24.59	2.118	53.80
2-7	2.604	66.14	2.139	54.33	1.664	42.27	1.280	32.51	1.204	30.58	2.354	59.79
2-9	2.840	72.14	2.375	60.33	1.900	48.26	1.516	38.51	1.440	36.58	2.590	65.79
2-11	3.076	78.13	2.611	66.32	2.136	54.25	1.752	44.50	1.676	42.57	2.826	71.78

795-009S
Cable Plug, Socket Contacts

- Size #16 Contacts
- All-Aluminum Body
- Two to Seventeen Ports
- 65 GHz SMPS Coax
- Environmental
- Scoop-Proof

Three to eleven ports. Size 16 contacts. 795-009 plugs have machined aluminum housings and fluorosilicone grommet for environmental protection. Size 16 socket contact cavities have beryllium copper retention clips. Use with 65 GHz SMPS coax contacts (P/N 852-159, ordered separately).

CONSTRUCTION
- **Shell:** aluminum
- **Grommet:** fluorosilicone
- **Jackscrew:** SST, passivated
- **Contact retainer clip:** copper alloy, unplated

SPECIFICATIONS
- **Operating temperature:** -55 °C to +125 °C
- **Shock:** EIA-364-27 Condition D
- **Vibration:** EIA-364-28 Condition V Letter E
- **Shell-to-shell resistance:** 2.5 milliohms max. with ground spring option

COAX CONTACTS
Not included with 795-009 connector. Sold separately.

for S/R or Flexible Coax Cable

- Part Number 852-159
- 65 GHz, solder termination
- Accepts .047 semi-rigid or flexible coax cable

PART NUMBER

	795-009S	1-9	M	L
Base P/N	795-009S			
Arrangement No.	*See Table 1* 1-2 *2 contacts* 1-3 *3 contacts* 1-5 *5 contacts* 1-7 *7 contacts* 1-9 *9 contacts* 2-5 *5 contacts, two row* 2-9 *9 contacts, two row* 2-13 *13 contacts, two row* 2-17 *17 contacts, two row*			
Material/ Finish	M Alum/ Electroless Nickel MT Alum/ Nickel-PTFE			
Hardware Option	*See Table 2* L **Jackscrews, Socket Head** *#8-32, non-removable* K **Extended Jackscrews Slot Head** *#8-32, non-removable* S **Low-Profile Socket Head Screwlock** *#8-32, non-removable* T **Extended Screwlock, Knurled Head** *#8-32, non-removable* P **Jackposts** *#8-32, with nut and lock washer* N **No Hardware** *.198 (5.0) diameter thru-holes*			

TABLE 1 ARRANGEMENT NUMBER

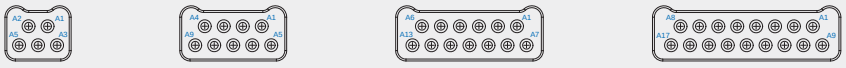
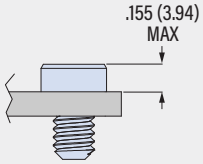
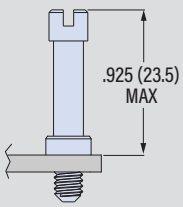


TABLE 2 HARDWARE OPTION

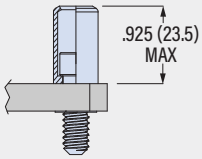
L **Socket Head Captive Jackscrew, #8-32**



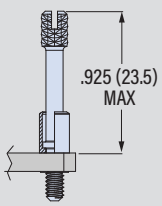
K **Extended Captive Jackscrew, #8-32**



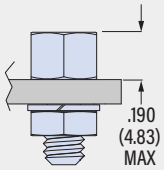
S **Low-Profile Socket Head Captive Screwlock**



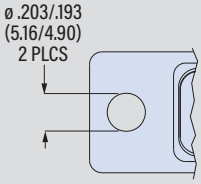
T **Extended Captive Screwlock, Knurled Head**



P **Jackpost, Nut and Lock washer, #8-32**



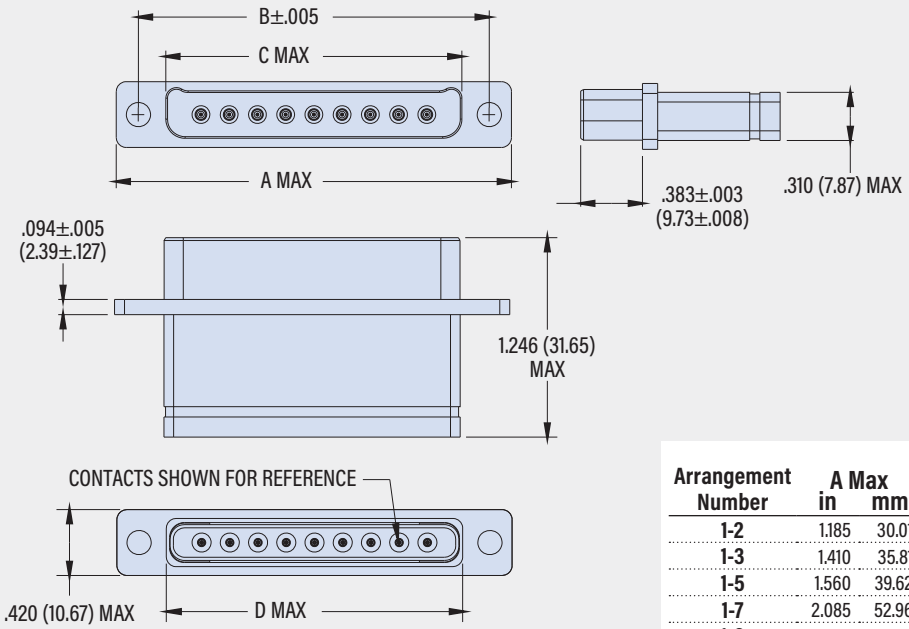
N **No Jackscrew**

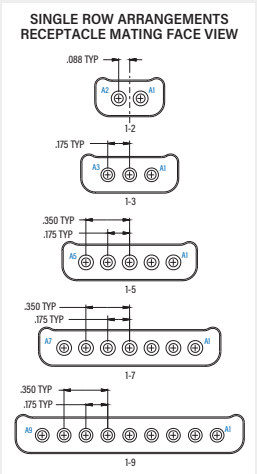


795-009S
Cable Plug, Socket Contacts

- Size #16 Contacts
- All-Aluminum Body
- Two to Seventeen Ports
- 65 GHz SMPS Coax
- Environmental
- Scoop-Proof

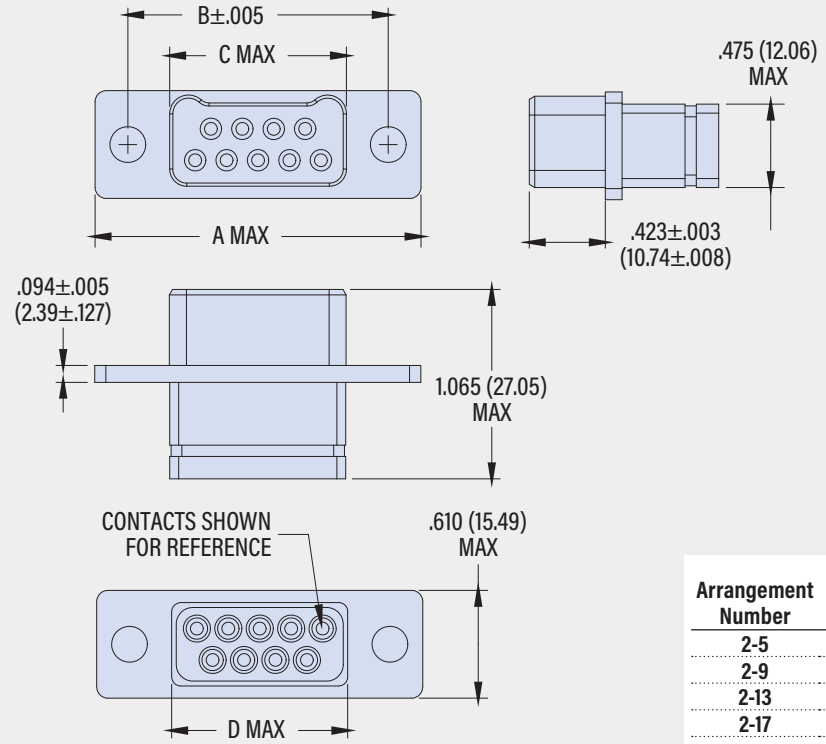
795-009S SINGLE ROW

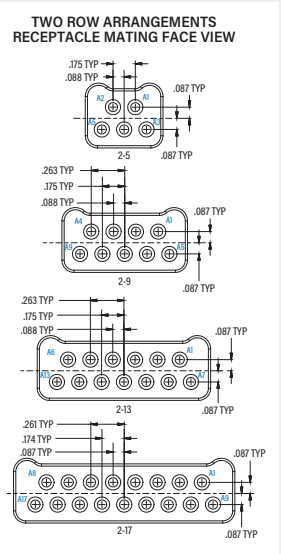




Arrangement Number	A Max in	A Max mm	B ±.005 (0.13) in	B ±.005 (0.13) mm	C Max. in	C Max. mm	D Max. in	D Max. mm
1-2	1.185	30.01	.900	22.86	1.045	26.54	.963	24.66
1-3	1.410	35.81	1.125	25.58	1.281	32.54	1.199	30.46
1-5	1.560	39.62	1.085	27.56	1.517	38.53	1.435	36.45
1-7	2.085	52.96	1.800	45.72	1.753	44.56	1.671	42.44
1-9	2.460	62.48	2.175	55.25	1.835	46.61	1.840	46.74

795-009S TWO ROW





Arrangement Number	A Max in	A Max mm	B ±.005 (0.13) in	B ±.005 (0.13) mm	C Max. in	C Max. mm	D Max. in	D Max. mm
2-5	1.450	36.83	1.075	27.31	.615	15.62	.610	15.49
2-9	1.825	46.35	1.450	36.83	.990	25.15	.985	25.02
2-13	2.200	55.88	1.825	46.36	1.365	34.67	1.360	34.54
2-17	2.575	65.41	2.200	55.88	1.740	44.20	1.735	44.01

795-010P
Cable Receptacle, Pin Contacts

- Size #16 Contacts
- All-Aluminum Body
- Two to Seventeen Ports
- 65 GHz SMPS Coax
- Environmental
- Scoop-Proof

Three to eleven ports. Size 16 contacts. 795-010 receptacles have machined aluminum housings and fluorosilicone grommet for environmental protection. Size 16 pin contact cavities have beryllium copper retention clips. Use with 65 GHz SMPS coax contacts (P/N 852-133, ordered separately).

CONSTRUCTION

- **Shell:** aluminum
- **Grommet:** fluorosilicone
- **Jackscrew:** SST, passivated
- **Contact retainer clip:** copper alloy, unplated

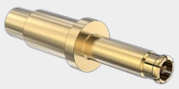
SPECIFICATIONS

- **Operating temperature:** -55 °C to +125 °C
- **Shock:** EIA-364-27 Condition D
- **Vibration:** EIA-364-28 Condition V Letter E
- **Shell-to-shell resistance:** 2.5 milliohms max. with ground spring option

COAX CONTACTS

Not included with 795-010 connector. Sold separately.

for S/R or Flexible Coax Cable



- Part Number 852-133
- 65 GHz, solder termination
- Accepts .047 semi-rigid or flexible coax cable

PART NUMBER

	795-010P	1-9	M	L
Base P/N	795-010P			
Arrangement No.	*See Table 1* 1-2 *2 contacts* 1-3 *3 contacts* 1-5 *5 contacts* 1-7 *7 contacts* 1-9 *9 contacts* 2-5 *5 contacts, two row* 2-9 *9 contacts, two row* 2-13 *13 contacts, two row* 2-17 *17 contacts, two row*			
Material/ Finish	M Alum/ Electroless Nickel MT Alum/ Nickel-PTFE			
Hardware Option	*See Table 2* L **Jackscrews, Socket Head** *#8-32, non-removable* K **Extended Jackscrews Slot Head** *#8-32, non-removable* S **Low-Profile Socket Head Screwlock** *#8-32, non-removable* T **Extended Screwlock, Knurled Head** *#8-32, non-removable* P **Jackposts** *#8-32, with nut and lock washer* N **No Hardware** *.198 (5.0) diameter thru-holes*			

TABLE 1 ARRANGEMENT NUMBER

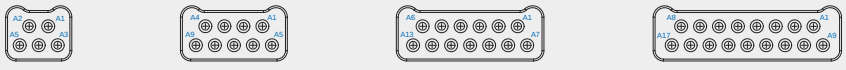
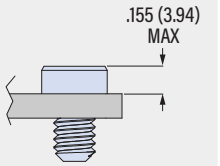
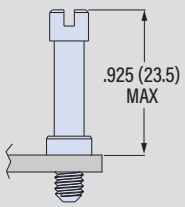


TABLE 2 HARDWARE OPTION

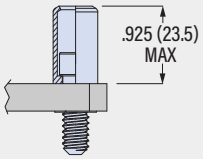
L — **Socket Head Captive Jackscrew, #8-32**



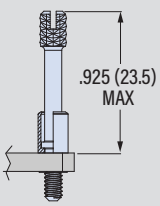
K — **Extended Captive Jackscrew, #8-32**



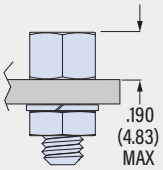
S — **Low-Profile Socket Head Captive Screwlock**



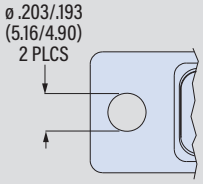
T — **Extended Captive Screwlock, Knurled Head**



P — **Jackpost, Nut and Lock washer, #8-32**



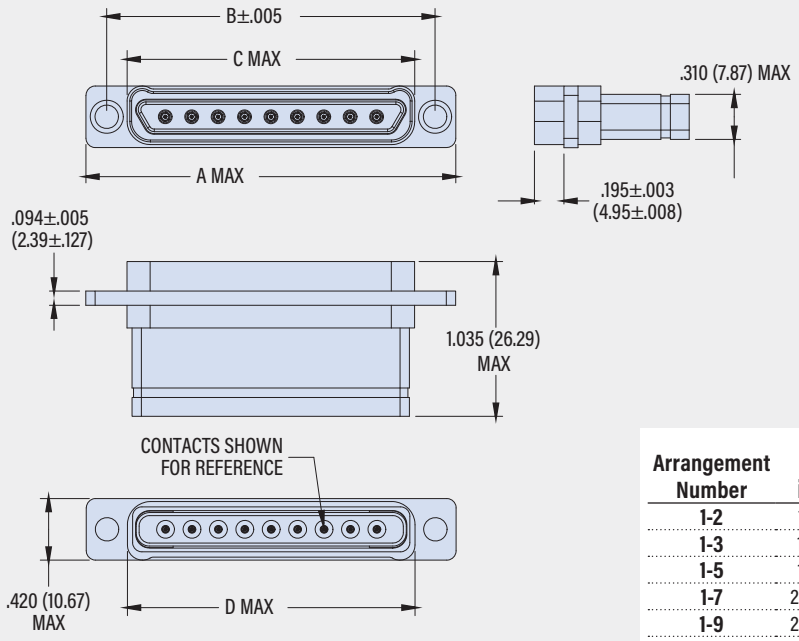
N — **No Jackscrew**

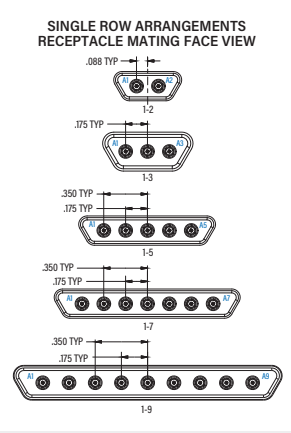


795-010P
Cable Receptacle, Pin Contacts

- Size #16 Contacts
- All-Aluminum Body
- Two to Seventeen Ports
- 65 GHz SMPS Coax
- Environmental
- Scoop-Proof

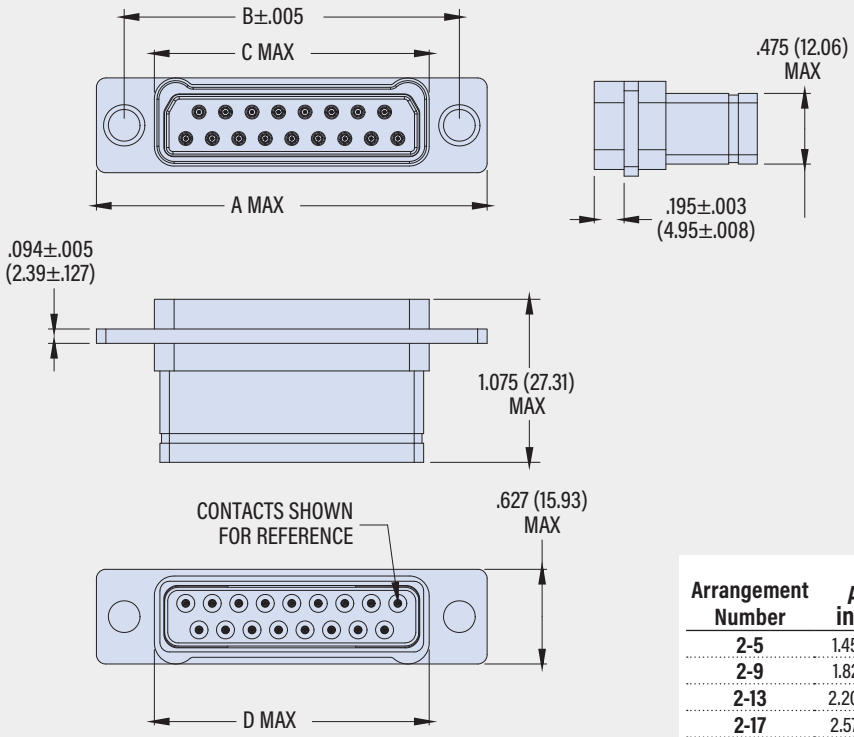
795-010P SINGLE ROW

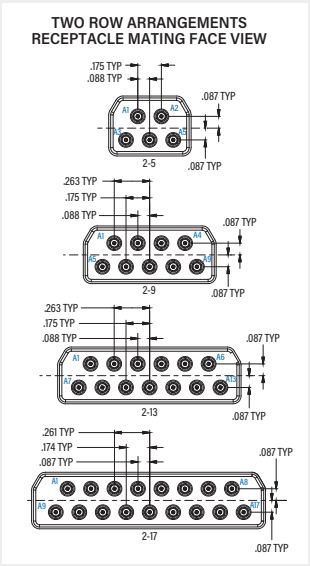




Arrangement Number	A Max in	A Max mm	B ±.005 (0.13) in	B ±.005 (0.13) mm	C Max. in	C Max. mm	D Max. in	D Max. mm
1-2	1.185	30.01	.900	22.86	.635	16.13	.567	14.40
1-3	1.410	35.81	1.125	25.58	.860	21.84	.792	20.12
1-5	1.710	43.43	1.425	36.20	1.160	29.46	1.092	27.74
1-7	2.085	52.96	1.800	45.72	1.535	38.99	1.467	37.26
1-9	2.460	62.48	2.175	55.25	1.910	48.51	1.842	46.79

795-010P TWO ROW





Arrangement Number	A Max in	A Max mm	B ±.005 (0.13) in	B ±.005 (0.13) mm	C Max. in	C Max. mm	D Max. in	D Max. mm
2-5	1.450	36.83	1.075	27.31	.685	17.40	.610	15.49
2-9	1.825	46.35	1.450	36.83	1.060	26.92	.985	25.02
2-13	2.200	55.88	1.825	46.36	1.435	36.45	1.360	34.54
2-17	2.575	65.41	2.200	55.88	1.810	45.97	1.780	45.21

795-011S
Panel-Mount Plug, Socket Contacts

- Size #16 Contacts
- All-Aluminum Body
- Two to Seventeen Ports
- 65 GHz SMPS Coax
- Environmental
- Scoop-Proof

Three to eleven ports. Size 16 contacts. 795-011 plugs have machined aluminum housings and fluorosilicone grommet for environmental protection. Size 16 socket contact cavities have beryllium copper retention clips. Use with 65 GHz SMPS coax contacts (P/N 852-159, ordered separately).

CONSTRUCTION

- **Shell:** aluminum
- **Grommet:** fluorosilicone
- **Jackscrew:** SST, passivated
- **Contact retainer clip:** copper alloy, unplated

SPECIFICATIONS

- **Operating temperature:** -55 °C to +125 °C
- **Shock:** EIA-364-27 Condition D
- **Vibration:** EIA-364-28 Condition V Letter E
- **Shell-to-shell resistance:** 2.5 milliohms max. with ground spring option

COAX CONTACTS

Not included with 795-011 connector. Sold separately.

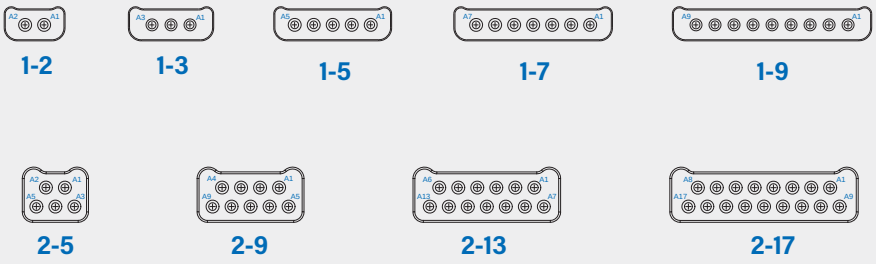
for S/R or Flexible Coax Cable

- Part Number 852-159
- 65 GHz, solder termination
- Accepts .047 semi-rigid or flexible coax cable

PART NUMBER

	795-011S	1-2	M	P	N
Base P/N	795-011S				
Arrangement No.	*See Table 1* 1-2 *2 contacts* 1-3 *3 contacts* 1-5 *5 contacts* 1-7 *7 contacts* 1-9 *9 contacts* 2-5 *5 contacts, two row* 2-9 *9 contacts, two row* 2-13 *13 contacts, two row* 2-17 *17 contacts, two row*				
Material/ Finish	M Alum/ Electroless Nickel MT Alum/ Nickel-PTFE				
Jackpost	P Jackpost *#8-32, Non-Removable* N No Jackpost				
O-ring	F Fluorosilicone O-Ring C Conductive O-ring N No O-ring S Metal EMI Spring (non-environmental)				

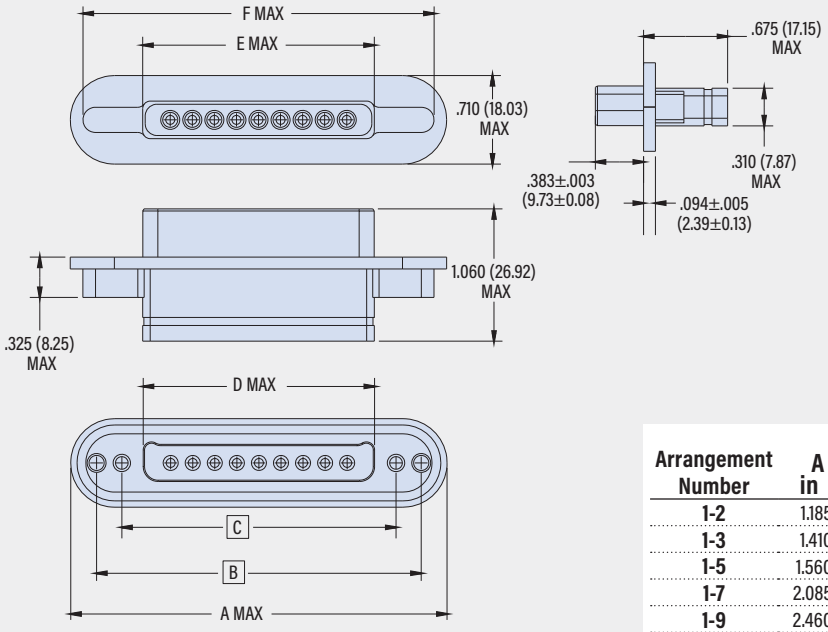
TABLE 1 ARRANGEMENT NUMBER



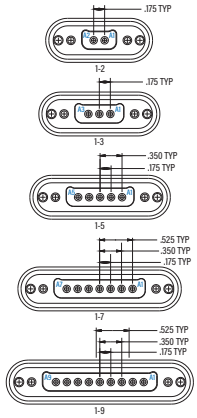
795-011S
Panel-Mount Plug, Socket Contacts

- Size #16 Contacts
- All-Aluminum Body
- Two to Seventeen Ports
- 65 GHz SMPS Coax
- Environmental
- Scoop-Proof

795-011S SINGLE ROW

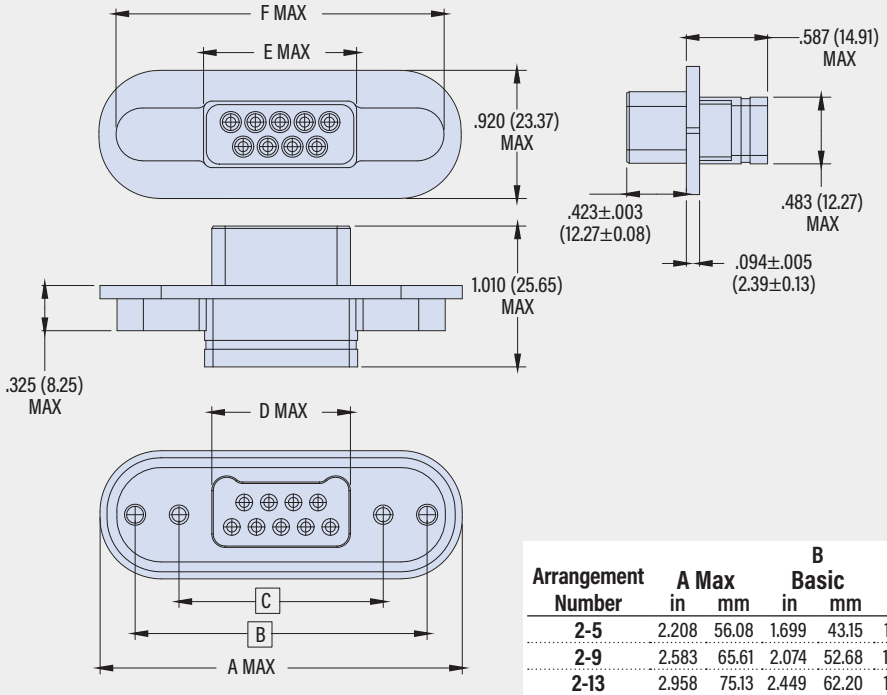


SINGLE ROW ARRANGEMENTS
RECEPTACLE MATING FACE VIEW

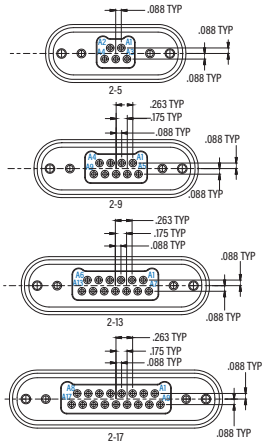


Arrangement Number	A Max in	A Max mm	B ±.005 (0.13) in	B ±.005 (0.13) mm	C Max. in	C Max. mm	D Max. in	D Max. mm
1-2	1.185	30.01	.900	22.86	1.045	26.54	.963	24.66
1-3	1.410	35.81	1.125	25.58	1.281	32.54	1.199	30.46
1-5	1.560	39.62	1.085	27.56	1.517	38.53	1.435	36.45
1-7	2.085	52.96	1.800	45.72	1.753	44.56	1.671	42.44
1-9	2.460	62.48	2.175	55.25	1.835	46.61	1.840	46.74

795-011S TWO ROW



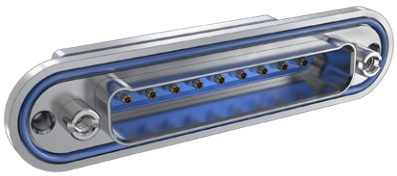
TWO ROW ARRANGEMENTS
RECEPTACLE MATING FACE VIEW



Arrangement Number	A Max in	A Max mm	B Basic in	B Basic mm	C Basic in	C Basic mm	D Max in	D Max mm	E Max in	E Max mm	F Max in	F Max mm
2-5	2.208	56.08	1.699	43.15	1.075	27.31	0.614	15.60	0.717	18.21	1.965	49.91
2-9	2.583	65.61	2.074	52.68	1.450	36.83	0.989	25.12	1.092	27.74	2.340	59.44
2-13	2.958	75.13	2.449	62.20	1.825	46.36	1.364	34.65	1.467	37.26	2.715	68.96
2-17	3.350	85.09	2.824	71.73	2.200	55.88	1.739	44.17	1.842	46.79	3.090	78.49

795-012P
Panel Mount Receptacle, Pin Contacts

- Size #16 Contacts
- All-Aluminum Body
- Two to Seventeen Ports
- 65 GHz SMPS Coax
- Environmental
- Scoop-Proof



Three to eleven ports. Size 16 contacts. 795-012 receptacles have machined aluminum housings and fluorosilicone grommet for environmental protection. Size 16 pin contact cavities have beryllium copper retention clips. Use with 65 GHz SMPS coax contacts (P/N 852-133, ordered separately).

CONSTRUCTION

- **Shell:** aluminum
- **Grommet:** fluorosilicone
- **Jackscrew:** SST, passivated
- **Contact retainer clip:** copper alloy, unplated

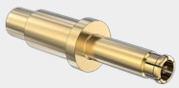
SPECIFICATIONS

- **Operating temperature:** -55 °C to +125 °C
- **Shock:** EIA-364-27 Condition D
- **Vibration:** EIA-364-28 Condition V Letter E
- **Shell-to-shell resistance:** 2.5 milliohms max. with ground spring option

COAX CONTACTS

Not included with 795-012 connector. Sold separately.

for S/R or Flexible Coax Cable

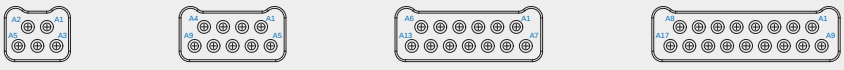


- Part Number 852-133
- 65 GHz, solder termination
- Accepts .047 semi-rigid or flexible coax cable

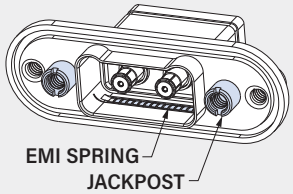
PART NUMBER

	795-012P	1-2	M	P	N
Base P/N	795-012P				
Arrangement No.	*See Table 1* 1-2 *2 contacts* 1-3 *3 contacts* 1-5 *5 contacts* 1-7 *7 contacts* 1-9 *9 contacts* 2-5 *5 contacts, two row* 2-9 *9 contacts, two row* 2-13 *13 contacts, two row* 2-17 *17 contacts, two row*				
Material/ Finish	M Alum/ Electroless Nickel MT Alum/ Nickel-PTFE				
Jackpost	P Jackpost *#8-32, Non-Removable* N No Jackpost				
O-ring	F Fluorosilicone O-Ring C Conductive O-ring N No O-ring S Metal EMI Spring (non-environmental)				

TABLE 1 ARRANGEMENT NUMBER



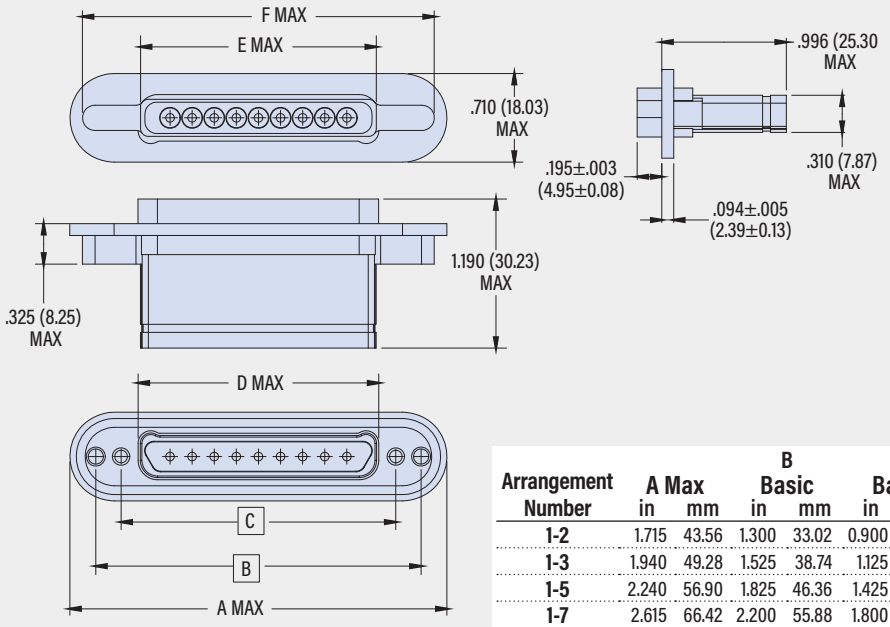
JACKPOST AND EMI SPRING

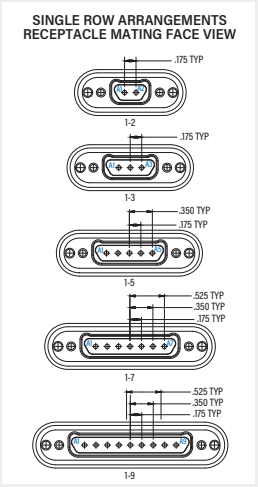


795-012P
Panel Mount Receptacle, Pin Contacts

- Size #16 Contacts
- All-Aluminum Body
- Two to Seventeen Ports
- 65 GHz SMPS Coax
- Environmental
- Scoop-Proof

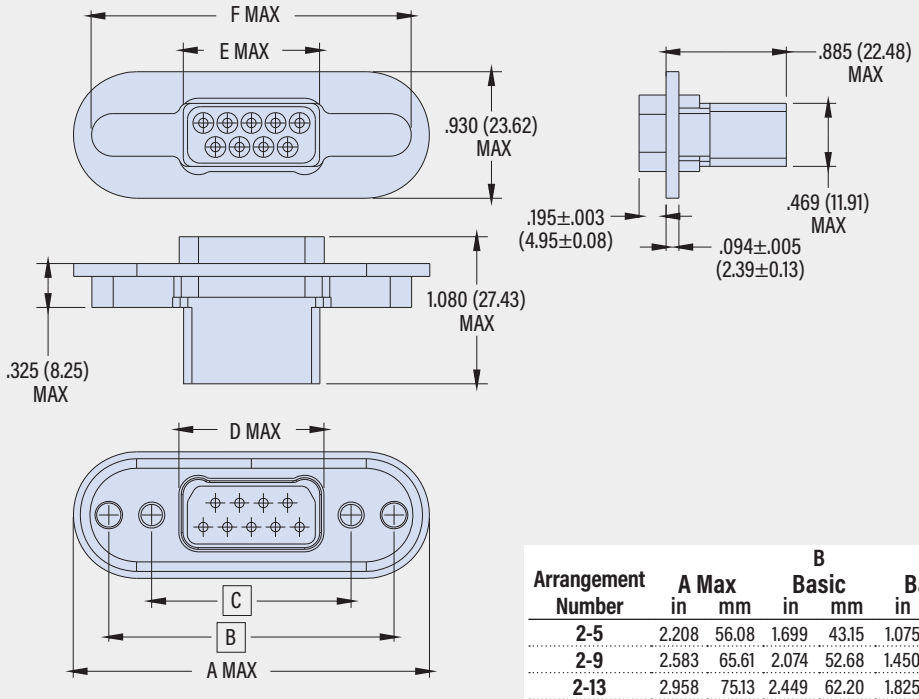
795-012P SINGLE ROW

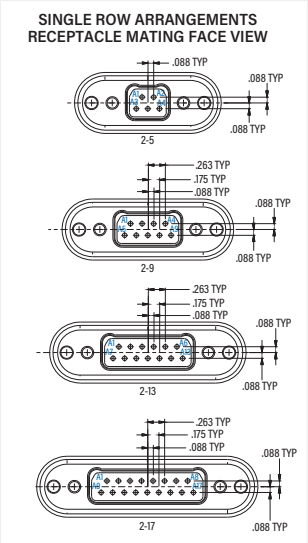




Arrangement Number	A Max in	A Max mm	B Basic in	B Basic mm	C Basic in	C Basic mm	D Max in	D Max mm	E Max in	E Max mm	F Max in	F Max mm
1-2	1.715	43.56	1.300	33.02	0.900	22.86	0.565	14.35	0.635	16.13	0.560	14.22
1-3	1.940	49.28	1.525	38.74	1.125	28.58	0.790	20.07	0.860	21.84	0.810	20.57
1-5	2.240	56.90	1.825	46.36	1.425	36.20	1.090	27.69	1.160	29.46	1.110	28.19
1-7	2.615	66.42	2.200	55.88	1.800	45.72	1.465	37.21	1.535	38.99	1.462	37.13
1-9	2.990	75.95	2.575	65.41	2.175	55.25	1.840	46.74	1.910	48.51	1.872	47.55

795-012P TWO ROW

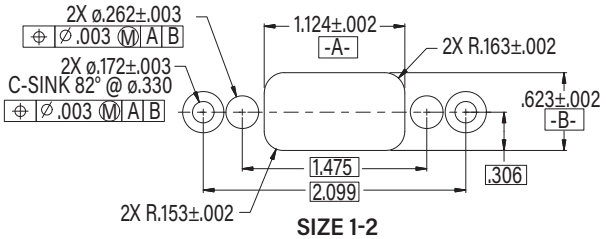




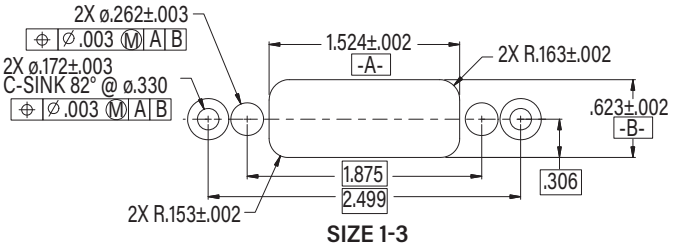
Arrangement Number	A Max in	A Max mm	B Basic in	B Basic mm	C Basic in	C Basic mm	D Max in	D Max mm	E Max in	E Max mm	F Max in	F Max mm
2-5	2.208	56.08	1.699	43.15	1.075	27.31	.684	17.37	.620	15.75	1.965	49.91
2-9	2.583	65.61	2.074	52.68	1.450	36.83	1.059	26.90	.995	25.27	2.340	59.44
2-13	2.958	75.13	2.449	62.20	1.825	46.36	1.434	36.42	1.370	34.80	2.715	68.96
2-17	3.350	85.09	2.824	71.73	2.200	55.88	1.809	45.95	1.745	44.32	3.090	78.49

Panel Cutouts

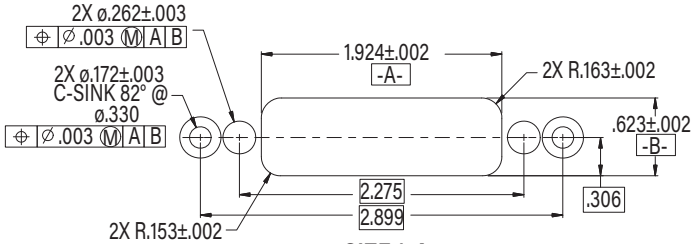
Recommended cutouts for Series 795 panel mount plug and receptacle connectors



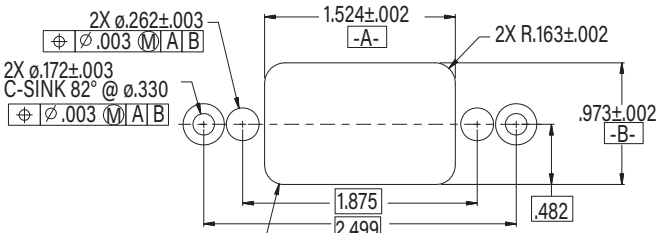
SIZE 1-2



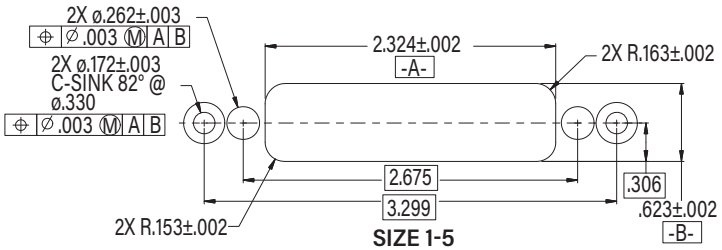
SIZE 1-3



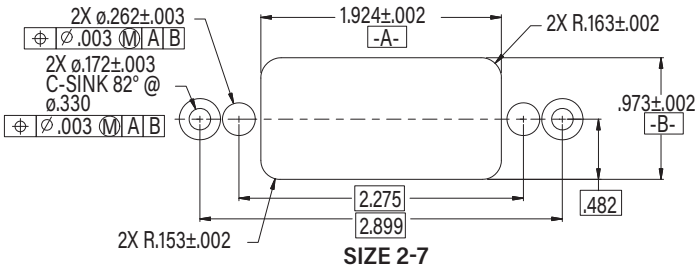
SIZE 1-4



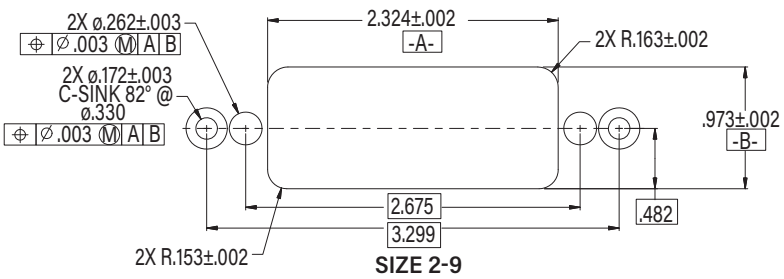
SIZE 2-5



SIZE 1-5



SIZE 2-7



SIZE 2-9

Selection Guide

SuperNine

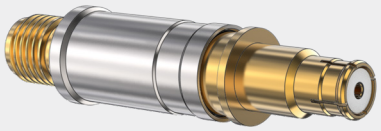
Multi-Port RF Circular Connectors

- Fifteen MIL-STD-1560 layouts for size #8, #12, or #16 RF contacts (sold separately)
- Rugged aluminum or stainless steel shells
- Environmental
- Scoop-proof interface
- EMI spring on plugs
- Snap-in, rear-release contacts

CONSTRUCTION

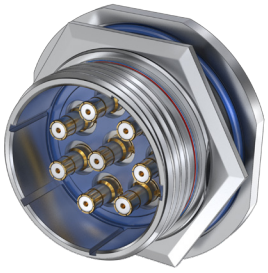
- **Shell:** aluminum or stainless steel
- **Seal/Grommet:** fluorosilicone blend
- **Ground Spring:** copper alloy

G-Link RF Contacts



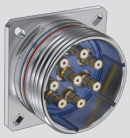
18 GHz G-Link RF contacts have a BMB-style mating end and a female SMA interface on the back end. Attach a standard SMA plug cable to the G-Link RF contact.

One to 29 contacts, Size 8, 12, or 16. 233-290 connectors have machined aluminum or stainless steel shells and fluorosilicone grommet for environmental protection. Plugs feature a copper alloy ground spring for EMI protection. Fifteen contact layouts available in eight different shell sizes. Supplied without contacts, order #8 BMB, #12 SMPM, or #16 SMPS contacts separately.

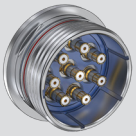


Connector Selection Guide

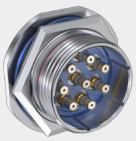
233-290-G6
Plug, EMI Spring
(Socket Contacts)
Page 50



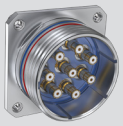
233-290-00
Wall-Mount Receptacle
(Pin Contacts)
Page 50



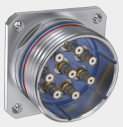
233-290-05
In-Line Receptacle
(Pin Contacts)
Page 51



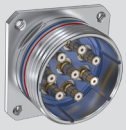
233-290-07
Jam Nut Receptacle
(Pin Contacts)
Page 51



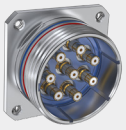
233-290-CS
Wall Mount Receptacle, Standard
Clinch Nuts (Pin Contacts)
Page 52



233-290-CM
Wall Mount Receptacle, Metric
Clinch Nuts (Pin Contacts)
Page 52

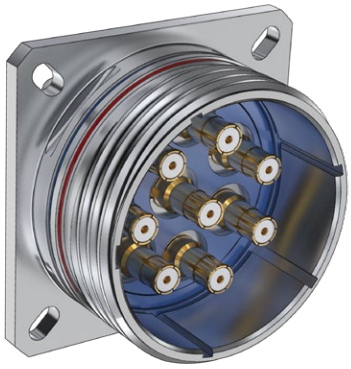


233-290-HS
Wall Mount Receptacle, Standard
Helicoils (Pin Contacts)
Page 53



233-290-HM
Wall Mount Receptacle, Metric
Helicoils (Pin Contacts)
Page 53

233-290
Plug (Socket Contacts) and Receptacles (Pin Contacts)

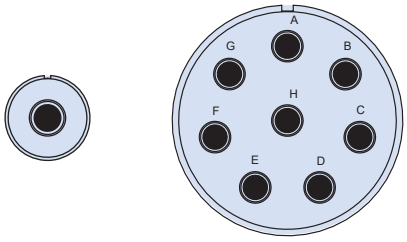


PART NUMBER

	233-290	-00	ME	17RF6	N
Base P/N	233-290 SuperNine RF Connector				
Connector Style	G6 Plug 00 Wall-Mount Receptacle, Slotted Holes 05 In-Line Receptacle 07 Jam Nut Receptacle CS Wall Mount Receptacle, Std. Clinch Nuts CM Wall Mount Receptacle, Metric Clinch Nuts HS Wall-Mount Receptacle, Std. Helicoil HM Wall-Mount Receptacle, Metric Helicoil				
Material/ Finish	NF Alum/ Cad/O.D. over Electroless Nickel MT Alum/ Nickel-PTFE ME Alum/ Electroless Nickel ZR Alum/ Black Zinc-Nickel ZL SST/ Nickel Plating				
Size and Layout	*See Table 1*				
Polarization	A, B, C, D, N				

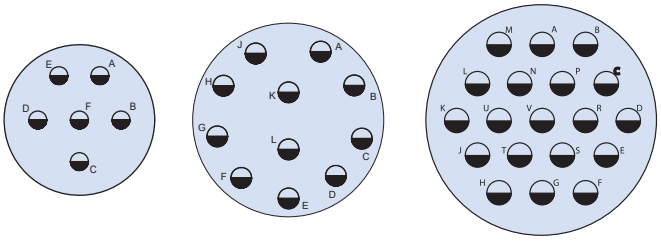
SuperNine Size 8 RF Contact Arrangements

Mating face of pin connector. Socket numbering is reversed.



Arrangement No.	11RF1	25RF8
	Shell Sz. 11 • 1 contact	Shell Sz, 25 • 8 contacts

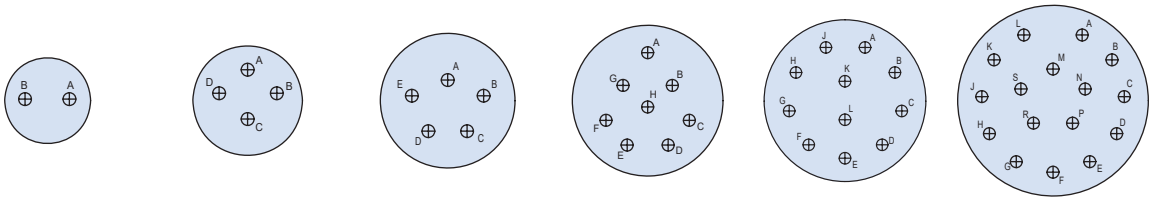
SuperNine Size 12 RF Contact Arrangements



Arrangement No.	17RF6	21RF11	25RF19
	Shell Sz. 17 • 6 contacts	Shell Size 21 • 11 contacts	Shell Size 25 • 19 contacts

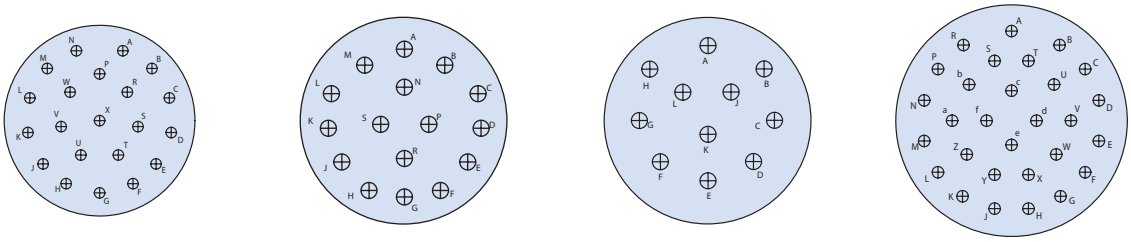
SuperNine Size 16 RF Contact Arrangements

Mating face of pin connector. Socket numbering is reversed.



Arrangement No.	11RF2	13RF4	15RF5	17RF8	19RF11	21RF16
	Shell Sz. 11 • 2 contacts	Shell Sz. 13 • 4 contacts	Shell Sz. 15 • 5 contacts	Shell Sz. 17 • 8 contacts	Shell Sz. 19 • 11 contacts	Shell Size 21 • 16 contacts

Mating face of pin connector. Socket numbering is reversed.

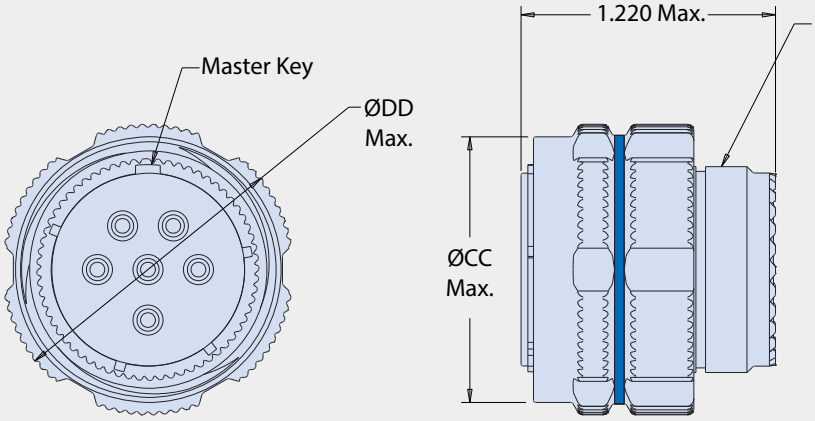


Arrangement No.	23RF21	23RF97	23RF99	25RF29
	Shell Size 23 • 21 contacts	Shell Size 23 • 16 contacts	Shell Size 23 • 11 contacts	Shell Size 25 • 29 contacts

233-290
Plug (Socket) / Receptacles (Pin)

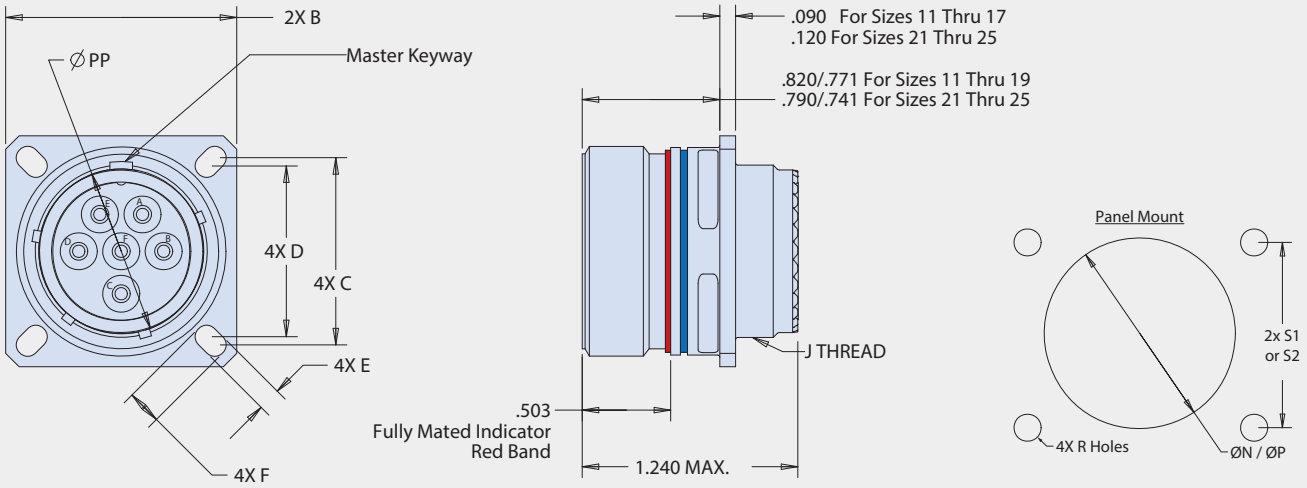
- 233-290-G6 Plug
- 233-290-00 Wall-Mount Receptacle

233-290-G6 PLUG WITH EMI SPRING



Shell Size	ØCC Max in	ØCC Max mm	ØDD Max in	ØDD Max mm	EE Thread
9	.732	18.59	.858	21.79	M12 X 1.0-6g 0.100R
11	.839	21.31	.984	24.99	M15 X 1.0-6g 0.100R
13	1.008	25.60	1.157	29.39	M18 X 1.0-6g 0.100R
15	1.138	28.91	1.280	32.51	M22 X 1.0-6g 0.100R
17	1.276	32.41	1.406	35.71	M25 X 1.0-6g 0.100R
19	1.382	35.10	1.516	38.51	M28 X 1.0-6g 0.100R
21	1.508	38.30	1.642	41.71	M31 X 1.0-6g 0.100R
23	1.626	41.30	1.768	44.91	M34 X 1.0-6g 0.100R
25	1.752	44.50	1.89	48.01	M37 X 1.0-6g 0.100R

233-290-00 WALL-MOUNT RECEPTACLE WITH SLOTTED HOLES

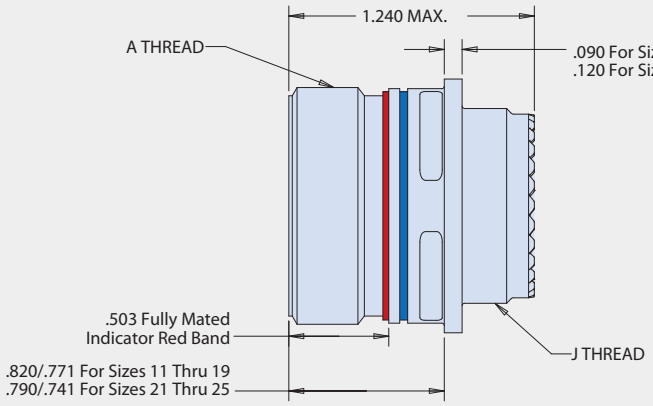


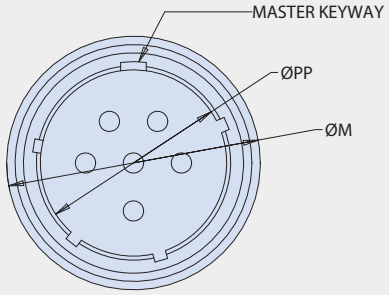
Shell Size	A Thread -.1P-.3L-TS-2A	B Sq	C Bsc	D Bsc	PP	E	F	J Thread X 1.0-6g 0.100R	ØN Min. (back panel mount)	ØP Min. (front panel mount)	S1 Bsc. (back panel mount)	S2 Bsc. (front panel mount)	ØR Holes
9	.6250	.949 (24.10) .925 (23.50)	.719 (18.26)	.594 (15.09)	.447 (11.35) .441 (11.20)	.136 (3.45) .120 (3.05)	.224 (5.69) .208 (5.28)	M12	.656 (16.66)	.516 (13.12)	.719 (18.26)	.594 (15.09)	.133 (3.38) .123 (3.12)
11	.7500	1.043 (26.49) 1.019 (25.88)	.812 (20.62)	.719 (18.26)	.575 (14.60) .569 (14.45)		.202 (5.13) .186 (4.72)	M15	.796 (20.22)	.625 (15.88)	.812 (20.62)	.719 (18.26)	
13	.8750	1.138 (28.91) 1.092 (27.74)	.906 (23.01)	.812 (20.62)	.687 (17.45) .681 (17.30)			M18	.922 (23.42)	.750 (19.05)	.906 (23.01)	.812 (20.62)	
15	1.0000	1.232 (31.29) 1.208 (30.68)	.969 (24.61)	.906 (23.01)	.812 (20.62) .804 (20.42)		.181 (4.60) .165 (4.19)	M22	1.047 (26.59)	.906 (23.01)	.969 (24.61)	.906 (23.01)	
17	1.1875	1.323 (33.60) 1.299 (32.99)	1.062 (26.97)	.969 (24.61)	.937 (23.80) .930 (23.62)			M25	1.219 (30.96)	1.016 (25.81)	1.062 (26.97)	.969 (24.61)	
19	1.2500	1.449 (36.80) 1.425 (36.20)	1.156 (29.36)	1.062 (26.97)	1.042 (26.47) 1.036 (26.31)		.202 (5.13) .186 (4.72)	M28	1.297 (32.94)	1.141 (28.98)	1.156 (29.36)	1.062 (26.97)	
21	1.3750	1.575 (40.00) 1.551 (39.40)	1.250 (31.75)	1.156 (29.36)	1.167 (29.64) 1.161 (29.49)			M31	1.422 (36.12)	1.266 (32.16)	1.250 (31.75)	1.156 (29.36)	
23	1.5000	1.701 (43.21) 1.677 (42.60)	1.375 (34.92)	1.250 (31.75)	1.292 (32.82) 1.286 (32.66)	.162 (4.11) .146 (3.71)	.250 (6.35) .234 (5.94)	M34	1.547 (39.29)	1.375 (34.93)	1.375 (34.92)	1.250 (31.75)	.159 (4.04) .149 (3.78)
25	1.6250	1.823 (46.30) 1.799 (45.69)	1.500 (38.10)	1.375 (34.92)	1.417 (35.99) 1.411 (35.84)			M37	1.672 (42.47)	1.484 (37.69)	1.500 (38.10)	1.375 (34.92)	

233-290
Receptacle Connectors (Pin Contacts)

- 233-290-05 In-Line Receptacle
- 233-290-07 Jam-Nut Receptacle

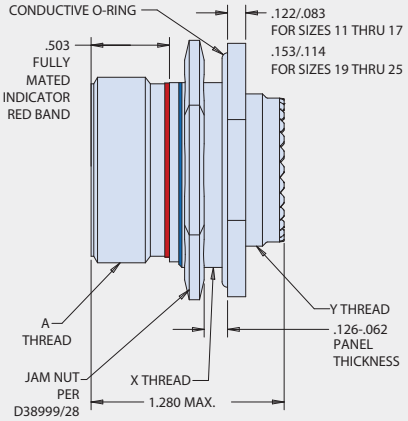
233-290-05 IN-LINE RECEPTACLE

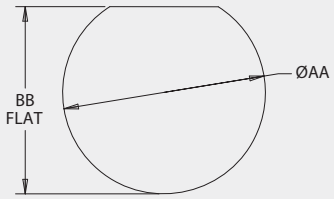


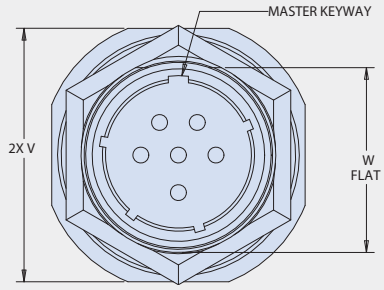


Shell Size	A Thread -.1P-.3L-TS-2A	PP	J Thread X 1.0-6g 0.100R	L Thread	ØM Max
9	.6250	.447 (11.35) .441 (11.20)	M12	.112-40 UNC	.858 (21.79)
11	.7500	.575 (14.60) .569 (14.45)	M15		.984 (24.99)
13	.8750	.687 (17.45) .681 (17.30)	M18		1.157 (29.39)
15	1.0000	.812 (20.62) .804 (20.42)	M22		1.280 (32.51)
17	1.1875	.937 (23.80) .930 (23.62)	M25		1.406 (35.71)
19	1.2500	1.042 (26.47) 1.036 (26.31)	M28		1.516 (38.51)
21	1.3750	1.167 (29.64) 1.161 (29.49)	M31		1.642 (41.71)
23	1.5000	1.292 (32.82) 1.286 (32.66)	M34	.138-32 UNC	1.768 (44.91)
25	1.6250	1.417 (35.99) 1.411 (35.84)	M37		1.890 (48.01)

233-290-07 JAM-NUT RECEPTACLE





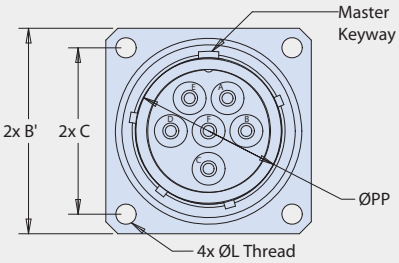


Shell Size	A Thread -.1P-.3L-TS-2A	Ø U	V	W Flat	X Thread X 1.0-6g 0.100R	Y Thread X 1.0-6g 0.100R	ØAA	BB Flat
09	.6250	1.200 (30.48) 1.178 (29.92)	1.078 (27.38) 1.048 (26.62)	.654 (16.61) .645 (16.38)	M17	M12	.703 .693	.661 (16.79) .654 (16.61)
11	.7500	1.386 (35.20) 1.362 (34.59)	1.268 (32.21) 1.236 (31.39)	.755 (19.18) .745 (18.92)	M20	M15	.835 .825	.771 (19.58) .761 (19.33)
13	.8750	1.512 (38.40) 1.488 (37.80)	1.390 (35.31) 1.358 (34.49)	.942 (23.93) .932 (23.67)	M25	M18	1.020 1.010	.955 (24.26) .945 (24.00)
15	1.0000	1.638 (41.61) 1.614 (41.00)	1.516 (38.51) 1.484 (37.69)	1.066 (27.08) 1.056 (26.82)	M28	M22	1.145 1.135	1.085 (27.56) 1.075 (27.30)
17	1.1875	1.764 (44.81) 1.740 (44.20)	1.642 (41.71) 1.610 (40.89)	1.191 (30.25) 1.181 (30.00)	M32	M25	1.270 1.260	1.210 (30.73) 1.200 (30.48)
19	1.2500	1.949 (49.50) 1.925 (48.90)	1.827 (46.41) 1.795 (45.59)	1.316 (33.43) 1.306 (33.17)	M35	M28	1.395 1.385	1.335 (33.91) 1.325 (33.65)
21	1.3750	2.075 (52.71) 2.051 (52.10)	1.953 (49.61) 1.921 (48.79)	1.441 (36.60) 1.431 (36.35)	M38	M31	1.520 1.510	1.460 (37.08) 1.450 (36.83)
23	1.5000	2.201 (55.91) 2.177 (55.30)	2.079 (52.81) 2.047 (51.99)	1.566 (39.78) 1.556 (39.52)	M41	M34	1.645 1.635	1.585 (40.26) 1.575 (40.00)
25	1.6250	2.323 (59.00) 2.299 (58.39)	2.205 (56.01) 2.173 (55.19)	1.691 (42.95) 1.681 (42.70)	M44	M37	1.770 1.760	1.710 (43.43) 1.700 (43.18)

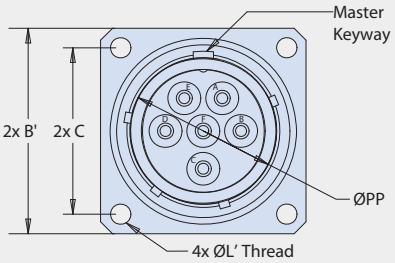
233-290
Receptacle Connectors (Pin Contacts)

- 233-290-CS Wall-Mount, Std. Clinch Nuts
- 233-290-CM Wall-Mount, Metric Clinch Nuts

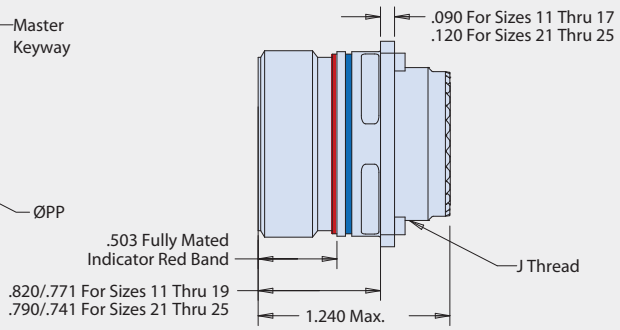
233-290 WALL-MOUNT RECEPTACLE WITH -CS STANDARD OR -CM METRIC CLINCH NUTS

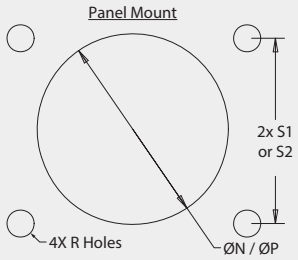


-CS Standard Clinch Nuts



-CM Metric Clinch Nuts



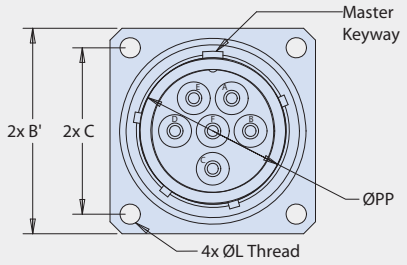


Shell Size	A Thread -.1P-.3L-TS-2A	B'	C Bsc	PP	J Thread	L Thread	L' Thread	ØN Min. (back panel mount)	ØP Min. (front panel mount)	S1 Bsc. (back panel mount)	S2 Bsc. (front panel mount)	ØR Holes
9	.6250	1.039 (26.39) .999 (25.37)	.719 (18.26)	.447 (11.35) .441 (11.20)	M12 X 1.0-6g 0.100R	.112-40 UNC	M3X 0.5	.656 (16.66)	.516 (13.12)	.719 (18.26)	.594 (15.09)	.133 (3.38) .123 (3.12)
11	.7500	1.132 (28.75) 1.092 (27.74)	.812 (20.62)	.575 (14.60) .569 (14.45)	M15 X 1.0-6g 0.100R			.796 (20.22)	.625 (15.88)	.812 (20.62)	.719 (18.26)	
13	.8750	1.226 (31.14) 1.186 (30.12)	.906 (23.01)	.687 (17.45) .681 (17.30)	M18 X 1.0-6g 0.100R			.922 (23.42)	.750 (19.05)	.906 (23.01)	.812 (20.62)	
15	1.0000	1.289 (32.74) 1.249 (31.72)	.969 (24.61)	.812 (20.62) .804 (20.42)	M22 X 1.0-6g 0.100R			1.047 (26.59)	.906 (23.01)	.969 (24.61)	.906 (23.01)	
17	1.1875	1.382 (35.10) 1.342 (34.09)	1.062 (26.97)	.937 (23.80) .930 (23.62)	M25 X 1.0-6g 0.100R			1.219 (30.96)	1.016 (25.81)	1.062 (26.97)	.969 (24.61)	
19	1.2500	1.476 (37.49) 1.436 (36.47)	1.156 (29.36)	1.042 (26.47) 1.036 (26.31)	M28 X 1.0-6g 0.100R			1.297 (32.94)	1.141 (28.98)	1.156 (29.36)	1.062 (26.97)	
21	1.3750	1.582 (40.18) 1.542 (39.17)	1.250 (31.75)	1.167 (29.64) 1.161 (29.49)	M31 X 1.0-6g 0.100R			1.422 (36.12)	1.266 (32.16)	1.250 (31.75)	1.156 (29.36)	
23	1.5000	1.739 (44.17) 1.699 (43.15)	1.375 (34.92)	1.292 (32.82) 1.286 (32.66)	M34 X 1.0-6g 0.100R	.138-32 UNC	M4X 0.7	1.547 (39.29)	1.375 (34.93)	1.375 (34.92)	1.250 (31.75)	.159 (4.04) .149 (3.78)
25	1.6250	1.884 (47.85) 1.824 (46.33)	1.500 (38.10)	1.417 (35.99) 1.411 (35.84)	M37 X 1.0-6g 0.100R			1.672 (42.47)	1.484 (37.69)	1.500 (38.10)	1.375 (34.92)	

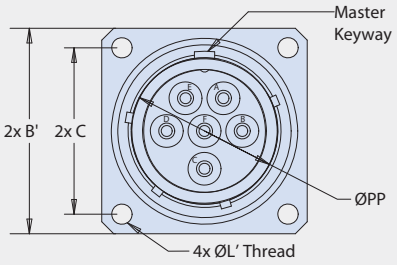
233-290
Receptacle Connectors (Pin Contacts)

- 233-290-HS Wall-Mount, Std. Helicoils
- 233-290-HM Wall-Mount, Metric Helicoils

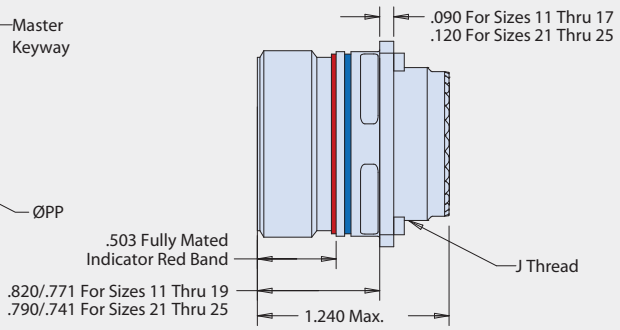
233-290 WALL-MOUNT RECEPTACLE WITH -HS STANDARD HELICOILS OR -HM METRIC HELICOILS

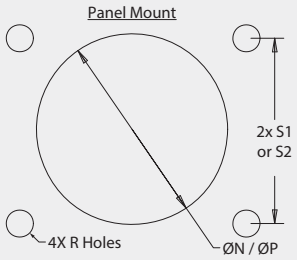


-HS Standard Helicoils



-HM Metric Helicoils





Shell Size	A Thread -.1P-.3L-TS-2A	B'	C Bsc	PP	J Thread	L Thread	L' Thread	ØN Min. (back panel mount)	ØP Min. (front panel mount)	S1 Bsc. (back panel mount)	S2 Bsc. (front panel mount)	ØR Holes
9	.6250	1.039 (26.39) .999 (25.37)	.719 (18.26)	.447 (11.35) .441 (11.20)	M12 X 1.0-6g 0.100R	.112-40 UNC	M3X 0.5	.656 (16.66)	.516 (13.12)	.719 (18.26)	.594 (15.09)	.133 (3.38) .123 (3.12)
11	.7500	1.132 (28.75) 1.092 (27.74)	.812 (20.62)	.575 (14.60) .569 (14.45)	M15 X 1.0-6g 0.100R			.796 (20.22)	.625 (15.88)	.812 (20.62)	.719 (18.26)	
13	.8750	1.226 (31.14) 1.186 (30.12)	.906 (23.01)	.687 (17.45) .681 (17.30)	M18 X 1.0-6g 0.100R			.922 (23.42)	.750 (19.05)	.906 (23.01)	.812 (20.62)	
15	1.0000	1.289 (32.74) 1.249 (31.72)	.969 (24.61)	.812 (20.62) .804 (20.42)	M22 X 1.0-6g 0.100R			1.047 (26.59)	.906 (23.01)	.969 (24.61)	.906 (23.01)	
17	1.1875	1.382 (35.10) 1.342 (34.09)	1.062 (26.97)	.937 (23.80) .930 (23.62)	M25 X 1.0-6g 0.100R			1.219 (30.96)	1.016 (25.81)	1.062 (26.97)	.969 (24.61)	
19	1.2500	1.476 (37.49) 1.436 (36.47)	1.156 (29.36)	1.042 (26.47) 1.036 (26.31)	M28 X 1.0-6g 0.100R			1.297 (32.94)	1.141 (28.98)	1.156 (29.36)	1.062 (26.97)	
21	1.3750	1.582 (40.18) 1.542 (39.17)	1.250 (31.75)	1.167 (29.64) 1.161 (29.49)	M31 X 1.0-6g 0.100R			1.422 (36.12)	1.266 (32.16)	1.250 (31.75)	1.156 (29.36)	
23	1.5000	1.739 (44.17) 1.699 (43.15)	1.375 (34.92)	1.292 (32.82) 1.286 (32.66)	M34 X 1.0-6g 0.100R	.138-32 UNC	M4X 0.7	1.547 (39.29)	1.375 (34.93)	1.375 (34.92)	1.250 (31.75)	.159 (4.04) .149 (3.78)
25	1.6250	1.884 (47.85) 1.824 (46.33)	1.500 (38.10)	1.417 (35.99) 1.411 (35.84)	M37 X 1.0-6g 0.100R			1.672 (42.47)	1.484 (37.69)	1.500 (38.10)	1.375 (34.92)	

Selection Guide

Series 806

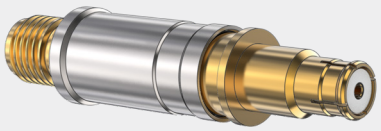
Multi-Port RF Circular Connectors

- Mil-spec performance, micro miniature package
- Eighteen layouts for size #8, #12, or #16 RF contacts (sold separately)
- Rugged aluminum or stainless steel shells
- Environmental
- Scoop-proof interface
- EMI spring on plugs
- Snap-in, rear-release contacts
- Hermetic

CONSTRUCTION

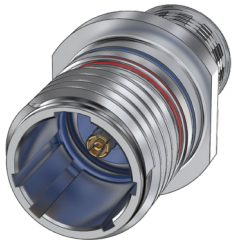
- Shell: aluminum or stainless steel
- Seal/Grommet: fluorosilicone blend
- Ground Spring: copper alloy

G-Link RF Contacts



18 GHz G-Link RF contacts have a BMB-style mating end and a female SMA interface on the back end. Attach a standard SMA plug cable to the G-Link RF contact.

One to 29 contacts, Size 8, 12, or 16. Series 806 RF connectors have machined aluminum or stainless steel shells and fluorosilicone grommet for environmental protection. Plugs feature a copper alloy ground spring for EMI protection. Eighteen contact layouts available in eleven different shell sizes. Supplied without contacts, order #8 BMB, #12 SMPM, or #16 SMPS contacts separately.



Connector Selection Guide

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Cable Plug
(Socket Contacts)
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Wall-Mount Receptacle
(Pin Contacts)
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806-079
In-Line Receptacle
(Pin Contacts)
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806-080
Jam Nut Receptacle
(Pin Contacts)
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806-083-02
Hermetic Bulkhead Feedthru,
Panel Mount
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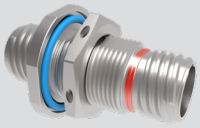

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Hermetic Bulkhead Feedthru,
Jam Nut Mount
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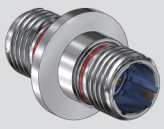

806-083-13
Hermetic Bulkhead Feedthru,
Weld Mount
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806-072
Plug Connector, Socket Contacts

POLARIZATION KEY CODE

POS	A	B	C	D
A	105	140	215	265
B	102	170	248	305
C	80	150	230	295
D	68	140	205	275
E	64	155	234	304
F	72	120	200	298

PART NUMBER

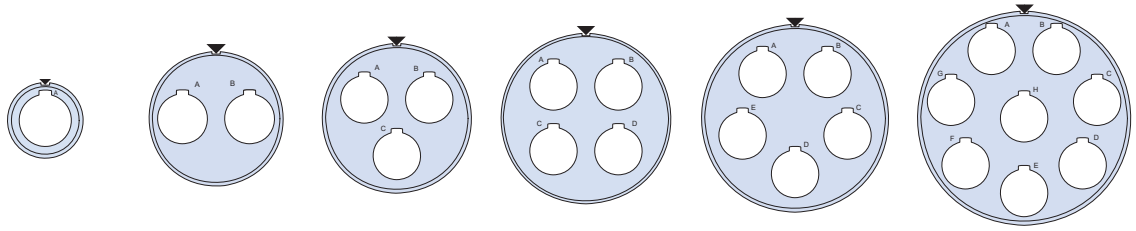
	806-072	ME	24RF8	M	A

Base P/N	Series 806 RF Plug (Socket Connector Less Contacts)
Material/ Finish	**NF** Alum/ Cad/O.D. over Electroless Nickel **MT** Alum/ Nickel-PTFE **ME** Alum/ Electroless Nickel **ZR** Alum/ Black Zinc-Nickel **ZL** SST/ Nickel Plating
Size and RF Insert Arrangement	*See Table*
Shell Rear Style	**M** Metric Accessory Threads **B** Nano Band Platform
Polarization	**A** (Normal), **B, C, D, E, F**

Series 806 Size 8 RF Contact Arrangements

Mating face of pin connector. Socket numbering is reversed.

Symbol ▼ indicates master key location.

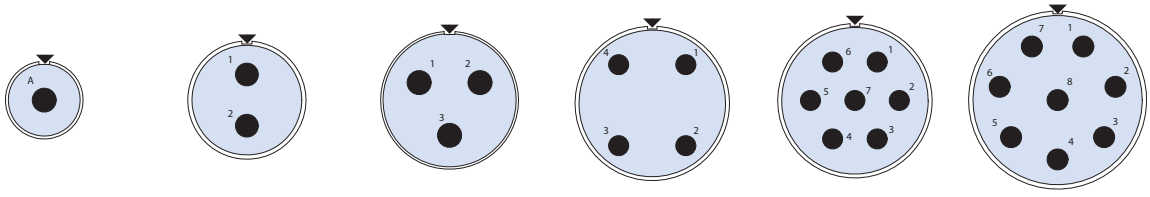


Arrangement No.	10RF1	16RF2	18RF3	20RF4	22RF5	24RF8

Series 806 Size 12 RF Contact Arrangements

Mating face of pin connector. Socket numbering is reversed.

Symbol ▼ indicates master key location.

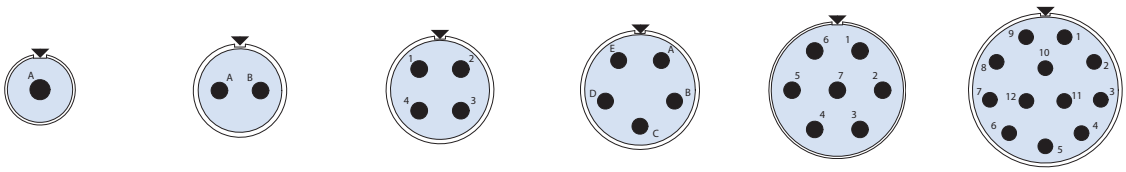


Arrangement No.	9RF1	12RF2	14RF3	16RF4	16RF7	18RF8

Series 806 Size 16 RF Contact Arrangements

Mating face of pin connector. Socket numbering is reversed.

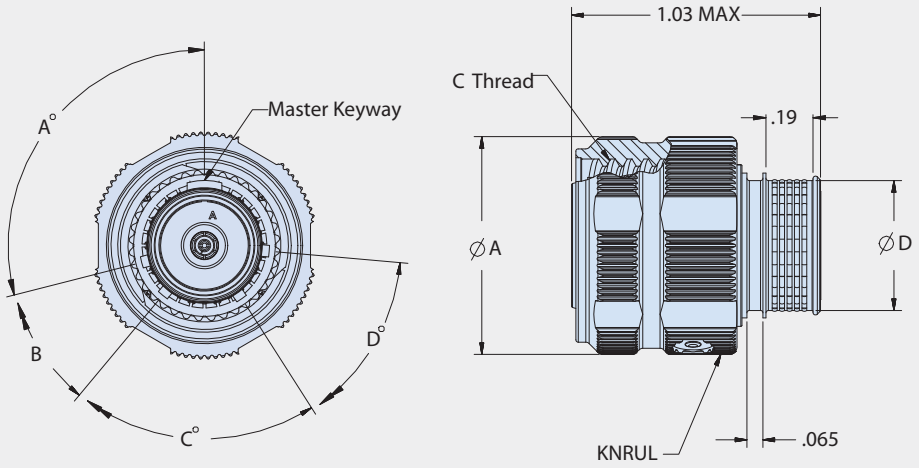
Symbol ▼ indicates master key location.



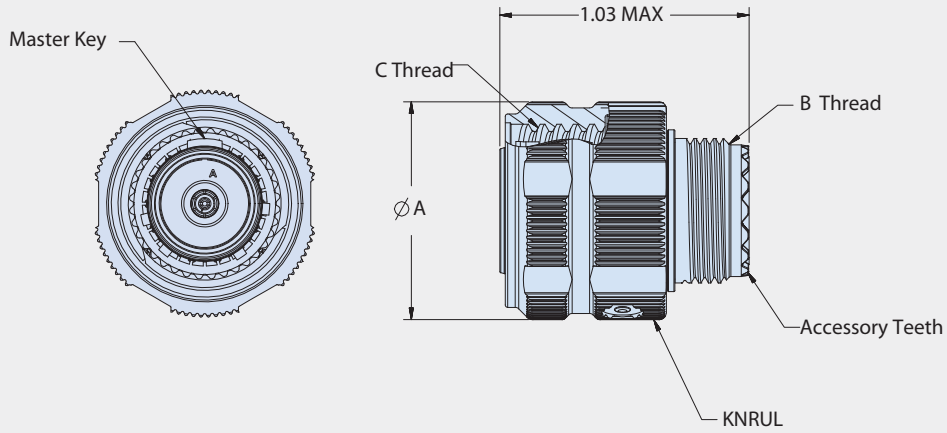
Arrangement No.	8RF1	10RF2	11RF4	12RF5	14RF7	16RF12

806-072
Plug Connector (Socket Contacts)

806-072 BAND PLATFORM



806-072 METRIC ACCESSORY THREAD



Shell Size	Ø A Max	B Thread	C Mating THD Triple Start Modified 60° Stub ACME	Ø D
8	0.676	M10 X 1.0-6g-.100R	0.500-.067P-.2L-TS-2B	0.327
9	0.771	M12 X 1.0-6g-.100R	0.562-.067P-.2L-TS-2B	0.406
10	0.832	M14 X 1.0-6g-.100R	0.625-.067P-.2L-TS-2B	0.484
11	0.890	M15 X 1.0-6g-.100R	0.688-.067P-.2L-TS-2B	0.524
12	0.950	M17 X 1.0-6g-.100R	0.750-.067P-.2L-TS-2B	0.603
14	1.110	M19 X 1.0-6g-.100R	0.875-.067P-.2L-TS-2B	0.681
16	1.170	M22 X 1.0-6g-.100R	1.000-.067P-.2L-TS-2B	0.782
18	1.350	M25 X 1.0-6g-.100R	1.125-.067P-.2L-TS-2B	0.899
20	1.470	M28 X 1.0-6g-.100R	1.250-.067P-.2L-TS-2B	1.043
22	1.600	M31 X 1.0-6g-.100R	1.375-.067P-.2L-TS-2B	1.155
24	1.710	M34 X 1.0-6g-.100R	1.500-.067P-.2L-TS-2B	1.273

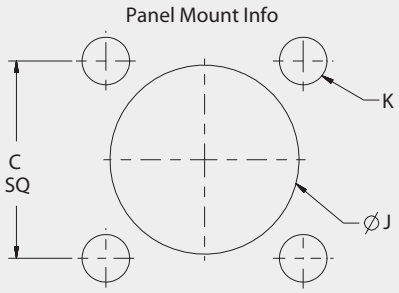
806-073
Wall-Mount Receptacle (Pin Contacts)

PART NUMBER

	806-073	ME	24RF8	M	T	A

Base P/N	Series 806 RF Wall-Mt. Receptacle (Pin Connector Less Contacts)
Material/ Finish	NF Alum/ Cad/O.D. over Electroless Nickel MT Alum/ Nickel-PTFE ME Alum/ Electroless Nickel ZR Alum/ Black Zinc-Nickel ZL SST/ Nickel Plating
Insert Arrangement	*(See 806-015 For Contact Arr)*
Shell Rear Style	M Metric Accessory Threads B Nano Band Platform
Panel Mounting Hole Style	T Thru Hole C Clinch Nut, 4-40 Thd M45938/6-4c *(For Rear Panel Mounting)*
Polarization	*See Table III*

MOUNT INFO



Size	J	With Clinch Nut	Without Clinch Nut
8	0.505	0.128	0.128
9	0.572		
10	0.640		
11	0.707		
12	0.762		
14	0.885		
16	1.01		
18	1.12		
20	1.27		0.154
22	1.395		
24	1.520		

DIMENSIONS

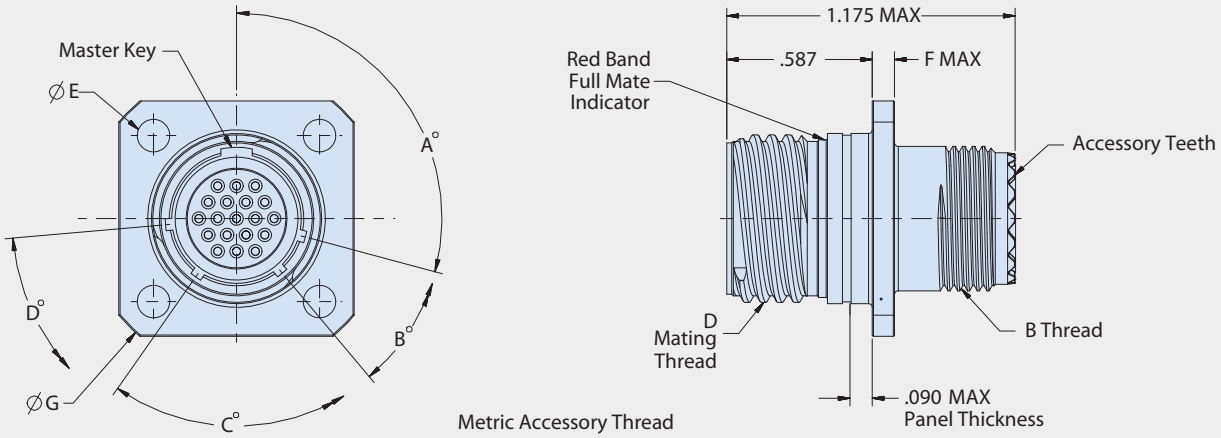
Shell Size	A Max	B Thread	C	D Mating Thread	Ø E Thru Hole	F Max	G Max	Ø H
8	0.822	M10 X 1-6g-.100R	0.531	.5000-.067P-.2L-TS-2A	0.128	0.100	1.040	0.327
9	0.885	M12 X 1-6g-.100R	0.594	.5625-.067P-.2L-TS-2A			1.130	0.406
10	0.913	M14 X 1-6g-.100R	0.625	.6250-.067P-.2L-TS-2A			1.174	0.484
11	0.960	M15 X 1-6g-.100R	0.670	.6875-.067P-.2L-TS-2A			1.200	0.524
12	1.040	M17 X 1-6g-.100R	0.765	.7500-.067P-.2L-TS-2A			1.354	0.603
14	1.133	M19 X 1-6g-.100R	0.859	.8750-.067P-.2L-TS-2A			1.510	0.681
16	1.227	M22 X 1-6g-.100R	0.938	1.000-.067P-.2L-TS-2A			1.620	0.782
18	1.320	M25 X 1-6g-.100R	1.016	1.1250-.067P-.2L-TS-2A			1.784	0.899
20	1.444	M28 X 1-6g-.100R	1.109	1.250-.067P-.2L-TS-2A	0.154	0.125	1.910	1.043
22	1.570	M31 X 1-6g-.100R	1.203	1.3750-.067P-.2L-TS-2A			2.083	1.155
24	1.696	M34 X 1-6g-.100R	1.312	1.5000-.067P-.2L-TS-2A			2.200	1.273

POLARIZATION KEY CODE TABLE III

POS	A	B	C	D
A	105	140	215	265
B	102	170	248	305
C	80	150	230	295
D	68	140	205	275
E	64	155	234	304
F	72	120	200	298

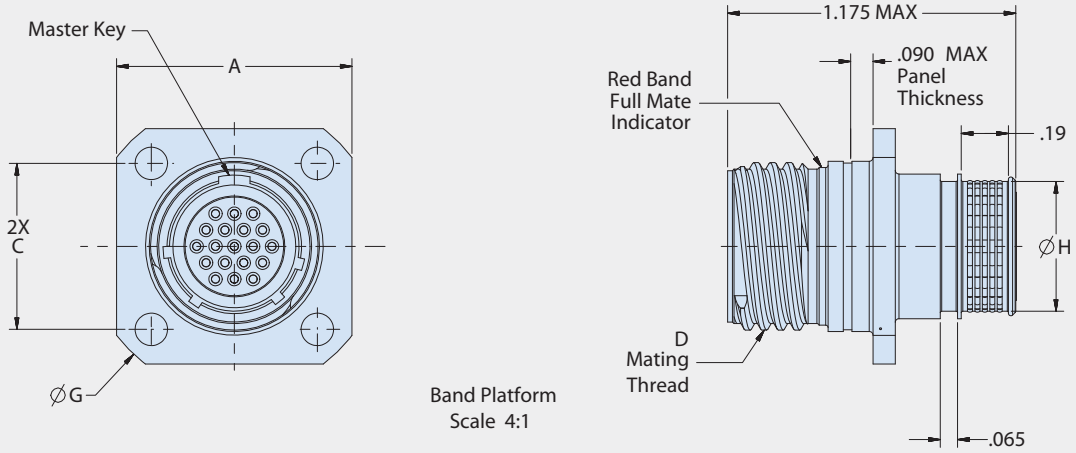
806-073
Wall-Mount Receptacle (Pin Contacts)

806-073 METRIC ACCESSORY THREAD



Metric Accessory Thread
Scale 4:1

806-073 BAND PLATFORM



Band Platform
Scale 4:1

806-079
In-Line Receptacle (Pin Contacts)

PART NUMBER

	806-079	-ME	24RF8	M	A

Base P/N	Series 806 RF In-Line Receptacle (Pin Connector Less Contacts)
Material/ Finish	NF Alum/ Cad/O.D. over Electroless Nickel MT Alum/ Nickel-PTFE ME Alum/ Electroless Nickel ZR Alum/ Black Zinc-Nickel ZL SST/ Nickel Plating
Insert Arrangement	*(See 806-015 For Contact Arrangement)*
Shell Style	M Metric Accessory Threads B Band (Platform for Attaching Cable Shield)
Polarization	*See Table III*

DIMENSIONS

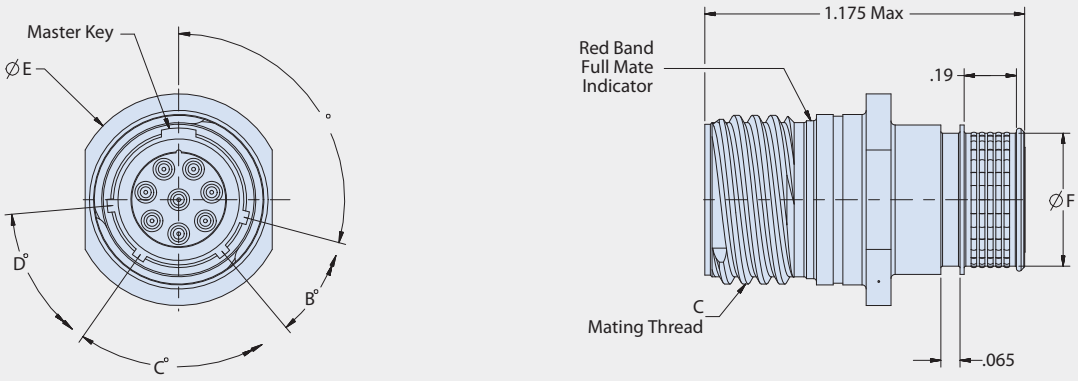
Shell Size	Ø A ± 0.01	B Thread	C Mating Thread	D Max	Ø E	Ø F
8	0.545	M10 X 1-6g-.100R	.5000-.067P-.2L-TS-2A	0.100	0.635	0.327
9	0.612	M12 X 1-6g-.100R	.5625-.067P-.2L-TS-2A		0.702	0.406
10	0.680	M14 X 1-6g-.100R	.6250-.067P-.2L-TS-2A		0.770	0.484
11	0.747	M15 X 1-6g-.100R	.6875-.067P-.2L-TS-2A		0.837	0.524
12	0.803	M17 X 1-6g-.100R	.7500-.067P-.2L-TS-2A		0.893	0.603
14	0.925	M19 X 1-6g-.100R	.8750-.067P-.2L-TS-2A		1.015	0.681
16	1.050	M22 X 1-6g-.100R	1.000-.067P-.2L-TS-2A		1.140	0.782
18	1.16	M25 X 1-6g-.100R	1.1250-.067P-.2L-TS-2A		1.250	0.899
20	1.310	M28 X 1-6g-.100R	1.250-.067P-.2L-TS-2A	0.125	1.400	1.043
22	1.435	M31 X 1-6g-.100R	1.3750-.067P-.2L-TS-2A		1.525	1.155
24	1.560	M34 X 1-6g-.100R	1.500-.067P-.2L-TS-2A		1.650	1.273

POLARIZATION KEY CODE TABLE III

POS	A	B	C	D
A	105	140	215	265
B	102	170	248	305
C	80	150	230	295
D	68	140	205	275
E	64	155	234	304
F	72	120	200	298

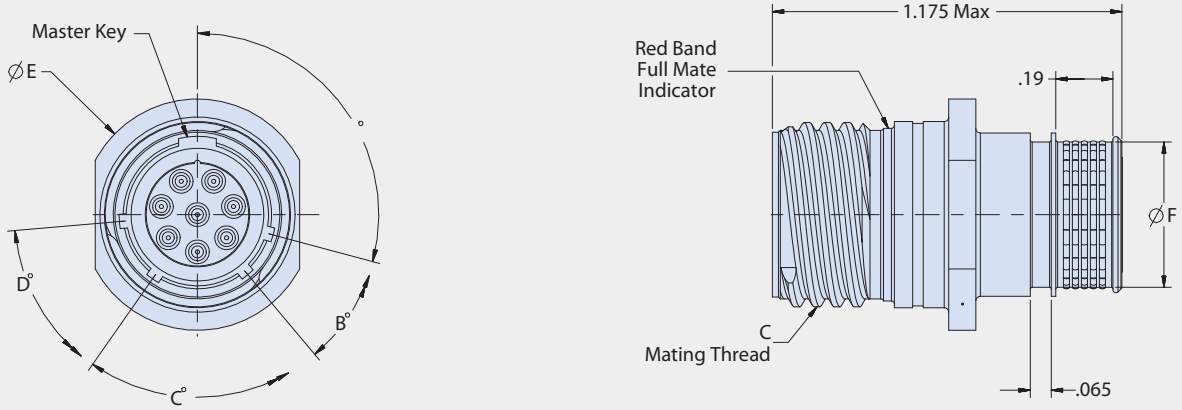
806-079
In-Line Receptacle (Pin Contacts)

806-079 METRIC ACCESSORY THREAD



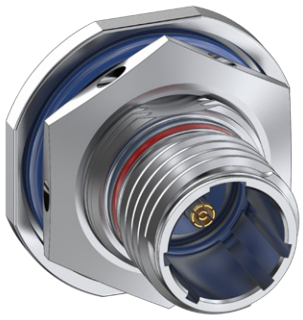
BAND PLATFORM

806-079 BAND PLATFORM



BAND PLATFORM

806-080
Jam-Nut Receptacle (Pin Contacts)



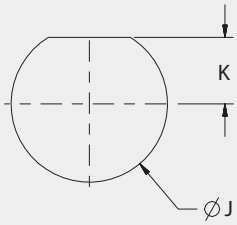
PART NUMBER

	806-080	ME	24RF8	M	A

Base P/N	Series 806 RF Jam-Nut Receptacle (Pin Connector Less Contacts)
Material/ Finish	NF Alum/ Cad/O.D. over Electroless Nickel MT Alum/ Nickel-PTFE ME Alum/ Electroless Nickel ZR Alum/ Black Zinc-Nickel ZL SST/ Nickel Plating
Insert Arrangement	*(See 806-015 For Contact Arrangement)*
Shell Style	M Metric Accessory Threads B Band (Platform for Attaching Cable Shield)
Polarization Keyway Code	*See Table III*

MOUNT INFO

RECOMMENDED MOUNTING HOLE DIMENSIONS



Size	K +.005 -.00	Ø J +.005 -.00
8	0.256	0.601
9	0.287	0.640
10	0.318	0.719
11	0.350	0.759
12	0.381	0.837
14	0.443	0.955
16	0.505	1.073
18	0.568	1.192
20	0.630	1.349
22	0.693	1.467
24	0.775	1.624

DIMENSIONS

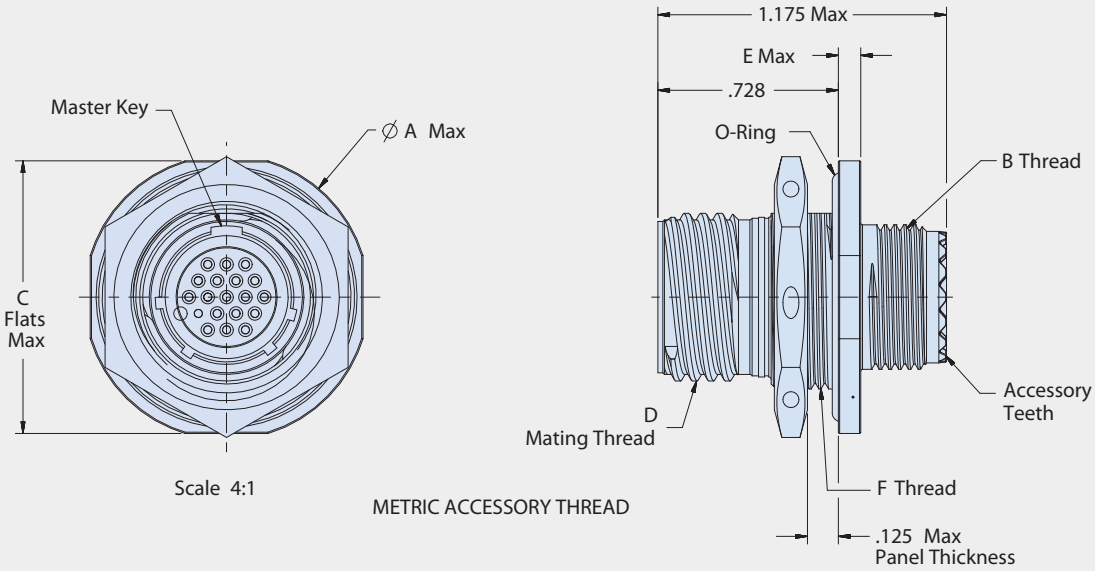
Shell Size	Ø A Max	B Thread	C Max	D Mating Thread	E Max	F Thread	Ø H
8	0.980	M10 X 1-6g-.100R	0.920	.5000-.067P-.2L-TS-2A	0.100	M15 X 1-6g-.100R	0.327
9	1.040	M12 X 1-6g-.100R	0.980	.5625-.067P-.2L-TS-2A		M16 X 1-6g-.100R	0.406
10	1.110	M14 X 1-6g-.100R	1.050	.6250-.067P-.2L-TS-2A		M18 X 1-6g-.100R	0.484
11	1.160	M15 X 1-6g-.100R	1.110	.6875-.067P-.2L-TS-2A		M19 X 1-6g-.100R	0.524
12	1.230	M17 X 1-6g-.100R	1.170	.7500-.067P-.2L-TS-2A		M21 X 1-6g-.100R	0.603
14	1.360	M19 X 1-6g-.100R	1.320	.8750-.067P-.2L-TS-2A		M24 X 1-6g-.100R	0.681
16	1.515	M22 X 1-6g-.100R	1.444	1.000-.067P-.2L-TS-2A		M27 X 1-6g-.100R	0.782
18	1.610	M25 X 1-6g-.100R	1.570	1.1250-.067P-.2L-TS-2A		M30 X 1-6g-.100R	0.899
20	1.850	M28 X 1-6g-.100R	1.760	1.250-.067P-.2L-TS-2A	0.128	M34 X 1-6g-.100R	1.043
22	2.010	M31 X 1-6g-.100R	1.913	1.3750-.067P-.2L-TS-2A		M37 X 1-6g-.100R	1.155
24	2.195	M34 X 1-6g-.100R	2.070	1.500-.067P-.2L-TS-2A		M41 X 1-6g-.100R	1.273

POLARIZATION KEY CODE TABLE III

POS	A	B	C	D
A	105	140	215	265
B	102	170	248	305
C	80	150	230	295
D	68	140	205	275
E	64	155	234	304
F	72	120	200	298

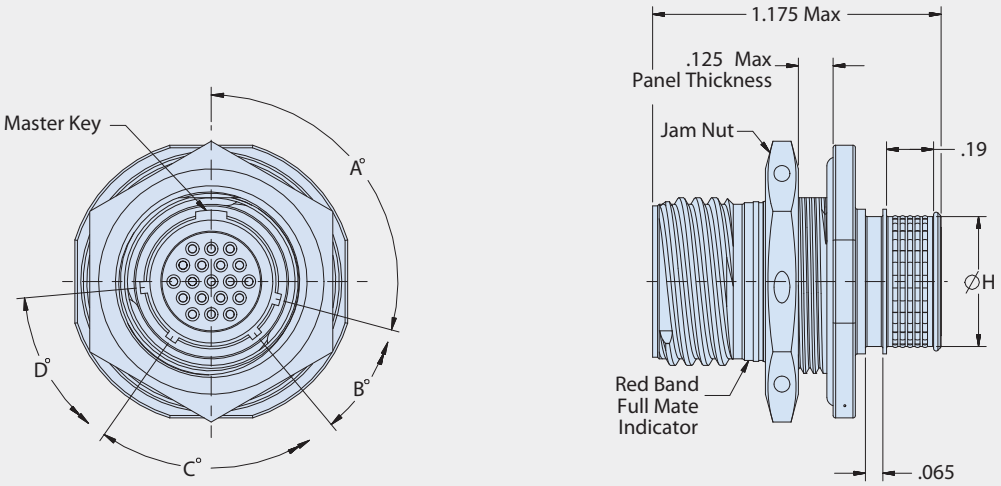
806-080
Jam-Nut Receptacle (Pin Contacts)

806-080 METRIC ACCESSORY THREAD



METRIC ACCESSORY THREAD

806-080 BAND PLATFORM



806-083
Hermetic Bulkhead Feed-Thru

PART NUMBER

	806-083	-07	Z1	9	C	1	P	A	-01	-75

Base P/N	Series 806 RF Hermetic Feedthru	
Mounting Type	01 Box Mount 07 Jam-Nut Mount 13 Weld Mount	
Finish	Z1 Passivated ZL Nickel Plated	
Shell Size		
RF Contact	C Coax D Differential Twinax* Q QUADRAX* T Concentric Twinax* **Only Size 8 Contacts* *For Signal/Power, see 806-081*	
Insert Arrangement	*See 806-015 for Contact Arrangement*	
Contact Style	P=Pin on Panel Side, Socket Opposite S=Socket on Panel Side, Pin Opposite	
Keyway Polarization	*See Table III*	
Panel Thickness	-01 .125 -02 .250 -03 .500	
Nominal Impedance	#12 & #8 -75=75OHM Omit for STD (50 DHM)	Quadrx -150=150 DHM Omit for STD (100 DHM)

POLARIZATION KEY CODE TABLE III

POS	A	B	C	D
A	105	140	215	265
B	102	170	248	305
C	80	150	230	295
D	68	140	205	275
E	64	155	234	304
F	72	120	200	298

PANEL THICKNESS

	T Max	U Max
-01	1.275	.750
-02	1.400	.875
-03	1.650	1.125

R/F STYLE CONTACT PERFORMANCE

Size and Type	Frequency Max
12 Coax	2 GHz
8 Coax	1 GHz
8 Twinax (Conc.)	20 MHz
8 Quadrax	1 GHz

806-083
Hermetic Bulkhead Feed-Thru

DIMENSIONS TABLE I

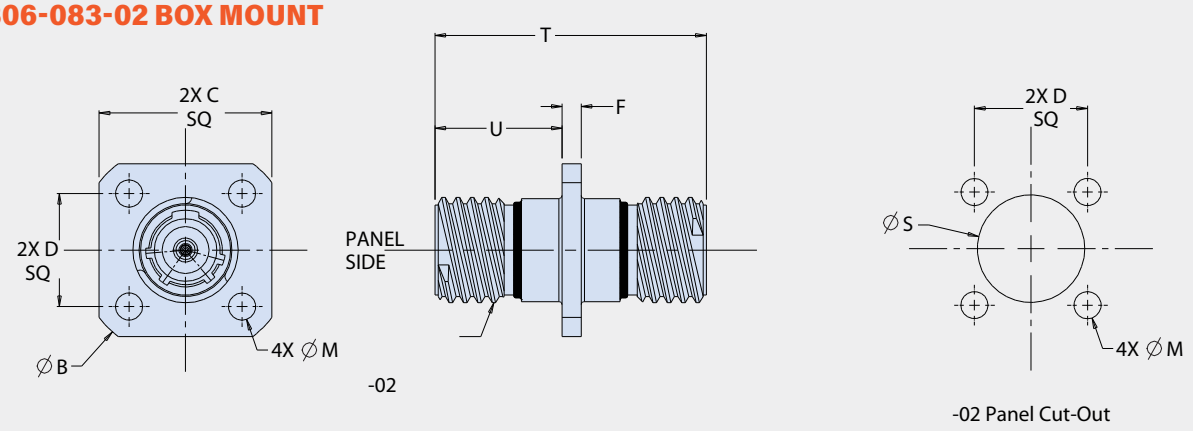
Shell Size	A Thread Mating	Ø B Max Flange	C Square Max Flange Flats	D Square BSC Mounting Holes	Ø E ±.010 Mounting Boss	F Max Flange	Ø G Max Flange	H Square Max Flange Flats
7	.4375-.067P-.2L-TS-2A	.968	.750	.469	.306		.848	.908
8	.5000-.067P-.2L-TS-2A	1.040	.822	.531	.387		.980	.920
9	.5625-.067P-.2L-TS-2A	1.130	.885	.594	.468		1.040	.980
10	.6250-.067P-.2L-TS-2A	1.174	.913	.625	.546		1.110	1.050
11	.6875-.067P-.2L-TS-2A	1.240	.960	.670	.586	.100	1.160	1.110
12	.7500-.067P-.2L-TS-2A	1.354	1.040	.765	.663		1.230	1.170
14	.8750-.067P-.2L-TS-2A	1.510	1.133	.859	.743		1.360	1.320
16	1.0000-.067P-.2L-TS-2A	1.620	1.227	.938	.842		1.515	1.444
18	1.1250-.067P-.2L-TS-2A	1.784	1.320	1.016	.959		1.610	1.570
20	1.2500-.067P-.2L-TS-2A	1.810	1.444	1.109	1.105		1.850	1.760
22	1.3750-.067P-.2L-TS-2A	2.083	1.570	1.203	1.215	.125	2.010	1.913
24	1.5000-.067P-.2L-TS-2A	2.200	1.686	1.312	1.335		2.195	2.070

DIMENSIONS (CONT.)

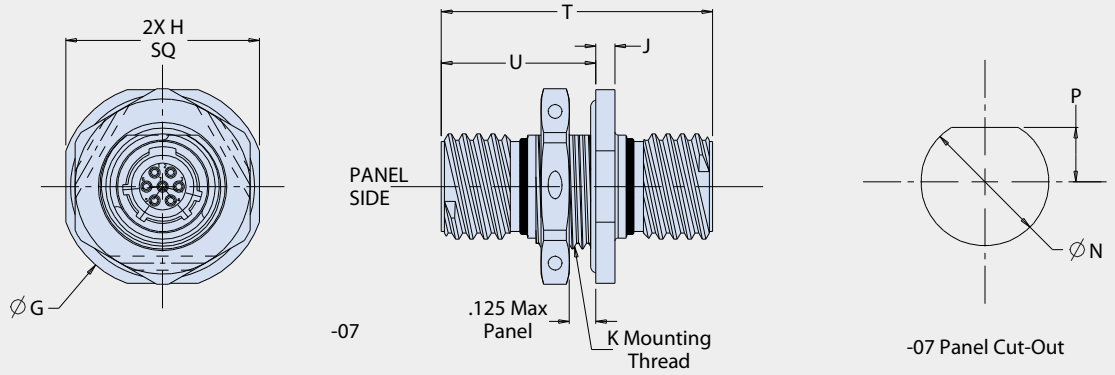
Shell Size	J Max Flange	K Thread Mounting	Ø L ±.002 Flange	Ø M Thru MTG Holes	Ø N +.005/-.000 Mounting Hole	P +.005/-.000 Mounting Flat	Ø R ±.002 MTG Hole	Ø S Thru
7		M13 X 1 -6g .100R	.725		.522	.224	.730	.445
8		M15 X 1-6g .100R	.788		.601	.256	.793	.509
9		M16 X 1-6g .100R	.912		.640	.287	.917	.577
10		M18 X 1-6g .100R	.975		.719	.318	.980	.645
11	.100	M19 X 1-6g .100R	1.038	.128	.759	.350	1.043	.712
12		M21 X 1-6g .100R	1.100		.837	.381	1.105	.768
14		M24 X 1-6g .100R	1.225		.955	.443	1.230	.890
16		M27 X 1-6g .100R	1.350		1.073	.505	1.355	1.015
18		M30 X 1-6g .100R	1.475		1.192	.568	1.480	1.125
20		M34 X 1-6g .100R	1.600		1.349	.630	1.605	1.275
22	.128	M37 X 1-6g .100R	1.725	.154	1.467	.693	1.730	1.400
24		M41 X 1-6g .100R	1.850		1.624	.755	1.855	1.525

806-083
Hermetic Bulkhead Feed-Thru

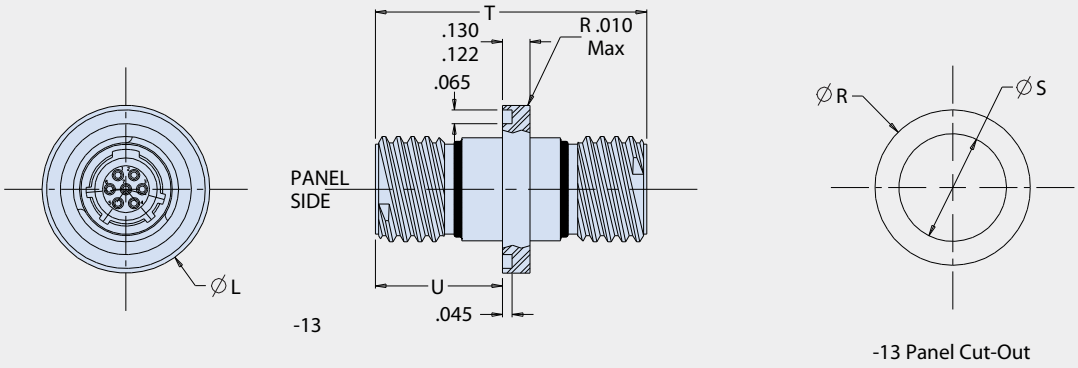
806-083-02 BOX MOUNT



806-083-07 JAM-NUT MOUNT



806-083-13 WELD-MOUNT



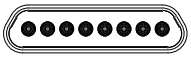
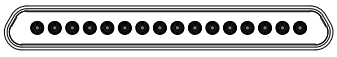
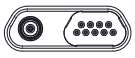
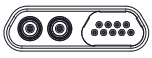
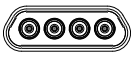
Selection Guide • Coax and combo coax contact arrangements materials and finishes • panel cutouts

The Series GMMD is an innovative modular Micro-D connector for RF coax and high-speed differential datalink applications. The unique micro miniature design of the GMMD also accommodates standard analog signal and power contacts, making it the most versatile Micro-D rectangular in the industry. GMMD leverages RF Coax contacts with Glenair Signature Micro-D and Nano TwistPin contact inserts. GMMD is supplied as factory-terminated pigtails, point-to-point jumpers, and SMT receptacles for easy PCB mounting.

Connector Selection Guide

GMMD-HRE / -HRPE
Horizontal PCB-mount Coax receptacles
Page 84

GMMD-FP / -FPE / -FR / -FRP / -FPCC
Coax and Combo Coax jumpers and pigtails • Page 87

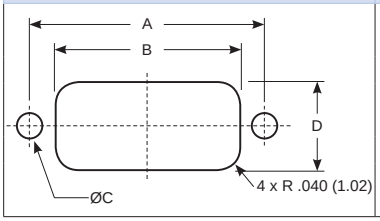
GMMD COAX AND COMBO COAX CONTACT ARRANGEMENTS (additional arrangements are available, consult factory)				
				
Contact Arrangement	**2C**	**4C**	**6C**	
Shell Size	9	21	25	
No. / type of contacts	2 X 50Ω Coax	4X 50Ω Coax	6X 50Ω Coax	
				
Contact Arrangement	**8C**	**16C**		
Shell Size	37	67		
No. / type of contacts	8 X 50Ω Coax	16X 50Ω Coax		
				
Contact Arrangement	**2C9**	**1V9**	**2V9**	**4V**
Shell Size	21	21	31	21
No. / type of contacts	2X 50Ω Coax, 9 X #24	1 X 75Ω Coax, 9 X #24	2 X 75Ω Coax, 9 X #24	4 X 75Ω Coax

GMMD MODULAR HIGH-SPEED MICRO-D STANDARD MATERIALS AND FINISHES	
Connector Shell, Metal	Aluminum Alloy 6061 IAW SAE AMS-QQ-A-250/11: Plating code 2: electroless nickel IAW ASTM B733 / Plating code 5: gold plated IAW ASTM B488 over electroless nickel IAW ASTM B733-90. / Plating code 6: chem film IAW MIL-C-5541 Class 3 Stainless Steel, 300 Series: Plating Code 3: Passivated IAW SAE AMS 2700
#24 Insulator and organizer tray	High-grade, high-temperature thermoplastic
Interfacial Seal (where applicable)	Fluorosilicone rubber IAW MIL-R-25988
#24 Pin Contact (TwistPin)	Beryllium copper, gold plated IAW ASTM B 488 Type II Class 1.27 (50 Min minimum) Code C, over nickel underplate IAW SAE AMS-QQ-N-290, class 2, (50-150 µin).
#24 Socket Contact	Phos bronze IAW ASTM 139 gold plated IAW ASTM B 488 Type II Class 1.27 (50 Min minimum) Code C, over nickel underplate IAW SAE-AMS-QQ-N-290, Class 2, (50-150 µin).
Coax isolating bush	High-grade thermoplastic
Encapsulant	High-temperature potting
Jackscrews, Jackposts, Float Mounts	Stainless steel, 300 series, passivated IAW SAE AMS 2700

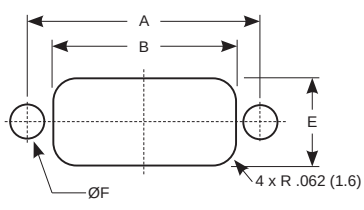
RECOMMENDED PANEL CUTOUT

Layout Diagram

Front Panel Mount

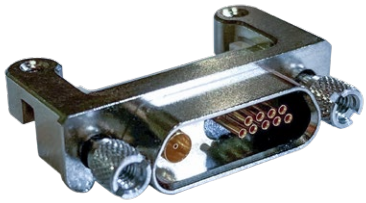


Rear Panel Mount



Layout	A mm. ± 0.08	B mm. ± 0.05	C mm. ± 0.05	D mm. ± 0.05	E mm. + 0.13, - 0.00	F mm. ± 0.05
9	14.35	10.41	2.31	7.04	6.50	3.20
15	18.16	14.22	2.31	7.04	6.50	3.20
21	21.97	18.03	2.31	7.04	6.50	3.20
25	24.51	20.57	2.31	7.04	6.50	3.20
31	28.32	24.38	2.31	7.04	6.50	3.20
37	32.13	28.19	2.31	7.04	6.50	3.20
51-2	41.02	37.08	2.31	7.04	6.50	3.20
67	51.18	47.19	2.31	7.04	6.50	3.20

Horizontal PCB-mount coax and combo coax receptacles
Surface-mount termination • edge-launched



GMMD-HRE horizontal PCB-mount receptacle (combo 1V9 layout shown)

CONNECTOR FEATURES

- One of the smallest rugged multiway RF coax connectors available
- 50Ω on 3.18mm pitch for combo arrangements
- 50Ω on 2.54 pitch for coax-only arrangements
- Shield isolated from connector shell
- PCB edge-launched for optimized 20GHz high-bandwidth performance
- Compatible with RG-178, semi-rigid and flexible 047 cables for 50Ω / RG-179 and semi-rigid cables for 75Ω

GMMD COAX AND COMBO COAX CONTACT ARRANGEMENTS

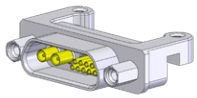
Code	Shell Size	Coax Contacts	#24 Contacts
2C	9	2x50Ω	
4C	21	4x50Ω	
6C	25	6x50Ω	
8C	31	8x50Ω	
16C	67	16x50Ω	
1C9	15	1x50Ω	9
2C9	21	2x50Ω	9
1V9	21	1x75Ω	9
2V9	31	2x75Ω	9
4V	21	4x75Ω	

HOW TO ORDER

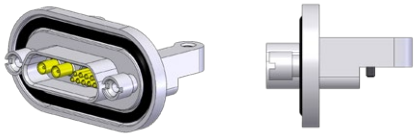
Sample Part Number	GMMD	-HRE	2C9	-2	P	M	1

Series	**GMMD** = Glenair Modular High-Speed Micro-D
Connector Format	**-HRE** = Horizontal edge-launched receptacle **-HRPE** = Horizontal panel-sealed edge launched recept.
Contact Arrangement	See Table. Consult factory for additional arrangements.
Shell Material / Finish	**-2** = Aluminum / Electroless Nickel **-5** = Aluminum / Gold **-3** = Stainless Steel / Passivated **-6** = Aluminum / Alochromate **-7** = Aluminum / Nickel-PTFE **-8** = Aluminum / Zinc-Nickel, Black
Jackpost Options	Specify per Jackpost / Hardware Options in table below
Board-Mount Options	Specify per Board-Mount Thread Options in table below
Sealing Options for HRPE (omit for HRE)	**0** = No O-ring **1** = Fluorosilicone **2** = Passivated silver-plated aluminum-filled fluorosilicone **3** = Nickel-plated aluminum-filled fluorosilicone

CONNECTOR FORMAT



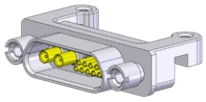
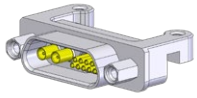
GMMD-HRE
Horizontal PCB-Mount Edge-Launched Receptacle



GMMD-HRPE
Horizontal PCB-Mount Panel-Sealed Edge-Launched Receptacle

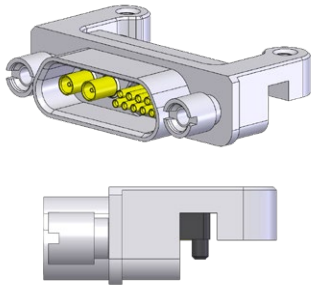
JACKPOST / HARDWARE OPTIONS and BOARD-MOUNT THREAD OPTIONS

For **Rear panel mount jackpost**, specify Jackpost option code **T**, **U**, **V**, **W**, **X**, or **Y** per required panel thickness, and board-mount thread option.
For **Factory installed jackpost**, specify code **S** and board-mount thread option.

		Jackpost option		Board-Mount Thread Option	
		Code	Panel Thickness		
Rear panel mount jackpost		T	2.4mm	M	M2 metric
		U	2.0mm		
		V	1.6mm		
		W	1.2mm	U	#2-56 UNC
		X	0.8mm		
		Y	0.6mm		
Factory installed jackpost		S		M	M2 metric
				U	#2-56 UNC

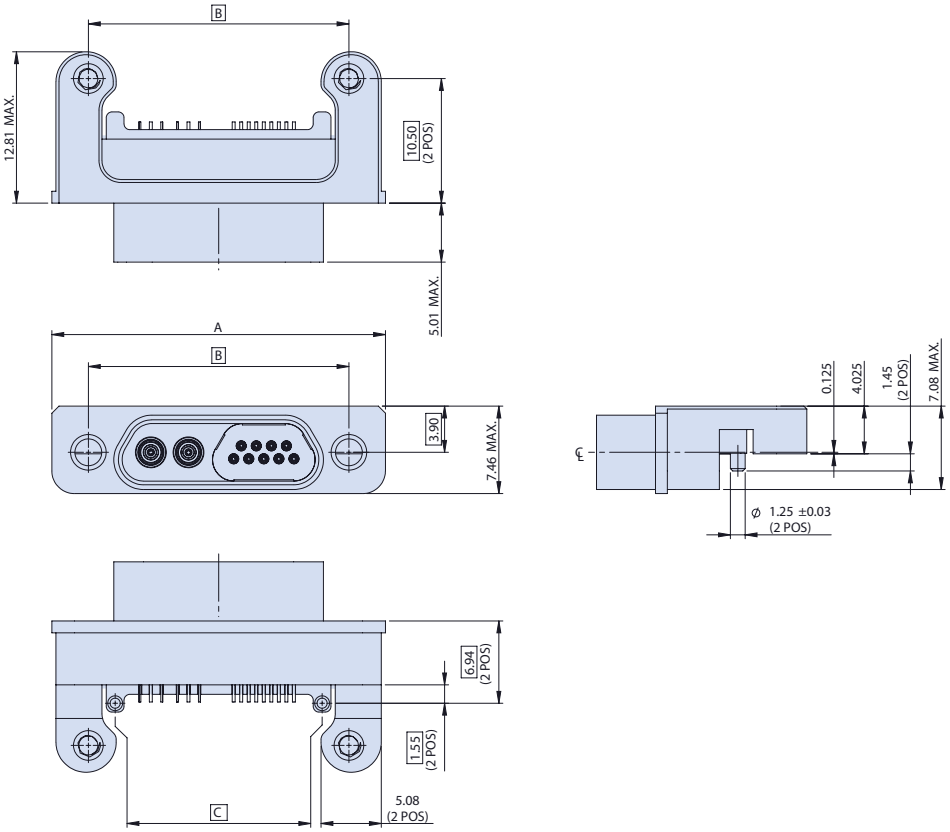
Horizontal PCB-mount coax and combo coax receptacles
Surface-mount termination • edge-launched

GMMD-HRE HORIZONTAL EDGE-LAUNCHED PCB-MOUNT CONNECTOR DIMENSIONS



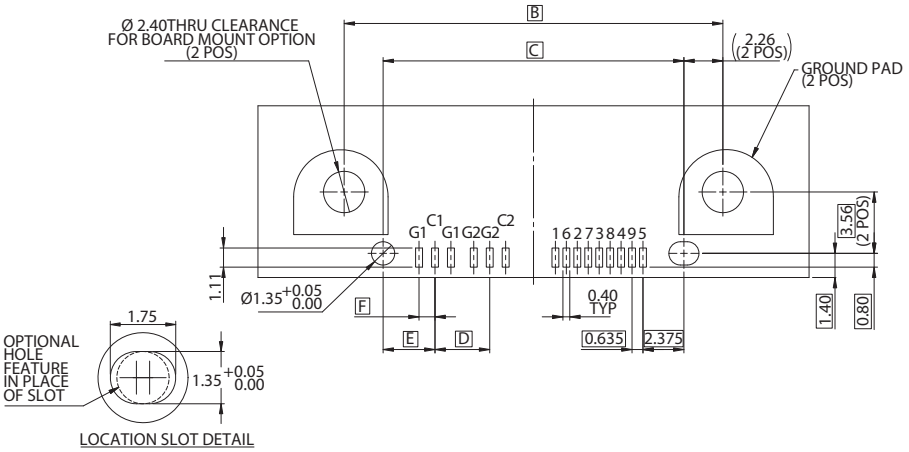
GMMD-HRE
Horizontal PCB-Mount Edge-Launched Receptacle

Shell size	A (mm)	B (mm)	C (mm)
9	20.56	14.35	9.83
15	24.37	18.16	13.64
21	28.18	21.97	17.45
25	30.72	24.51	19.99
31	34.53	28.32	23.80
67	57.39	51.18	46.66



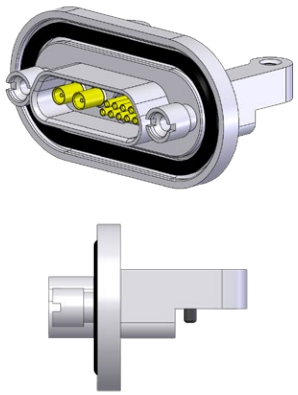
PCB MOUNTING PATTERN FOR GMMD-HRE HORIZONTAL EDGE-LAUNCHED PCB-MOUNT CONNECTOR (SMT MOUNT - COMPONENT SIDE)

			D	E	F
50ohm hybrid			3.175	3.01	0.925
75ohm hybrid			4.15	3.53	1.325
	Shell size	Arrangement			
50ohm only	9	2C	2.54	3.645	0.925
	21	4C	2.54	4.915	0.925
	25	6C	2.54	3.645	0.925
	3	8C	2.54	3.01	0.925
	51-2	12C	2.54	4.28	0.925
	67	16C	2.54	4.28	0.925
75ohm only	9	2V	3.5	3.165	1.325
	15	3V	3.5	3.32	1.325
	21	4V	3.5	3.475	1.325



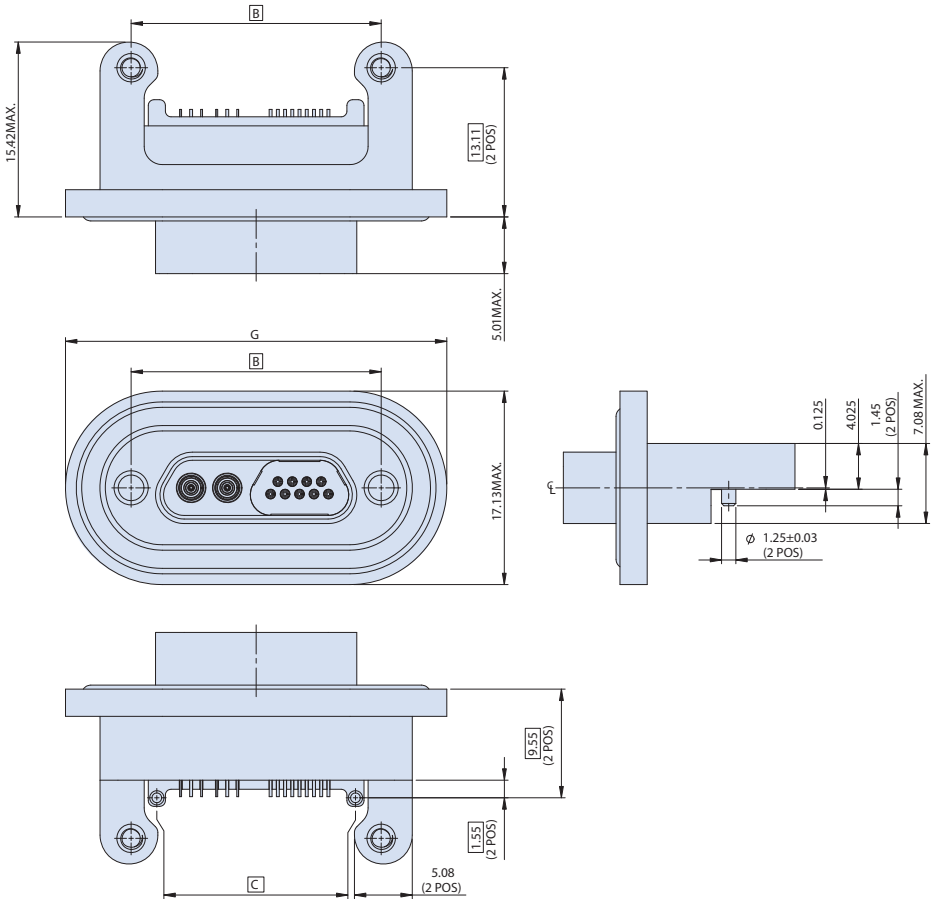
Horizontal PCB-mount coax and combo coax receptacles
Surface-mount termination • panel-sealed edge-launched

GMMD-HRPE HORIZONTAL PANEL-SEALED EDGE-LAUNCHED PCB-MOUNT CONNECTOR DIMENSIONS



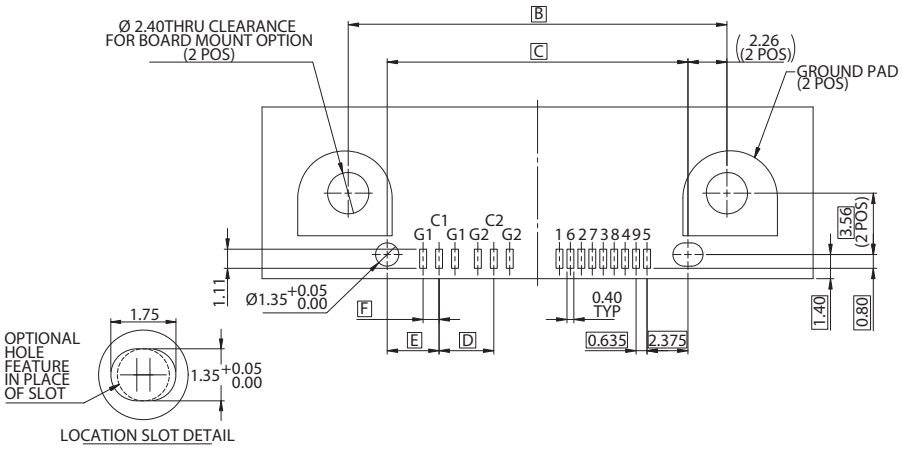
GMMD-HRPE
Horizontal PCB-Mount Panel-Sealed Edge-Launched Receptacle

Shell size	B (mm)	C (mm)	G (mm)
9	9.83	25.88	25.88
15	13.64	29.69	26.69
21	17.45	33.50	33.50
25	19.99	36.04	36.04
31	23.80	39.85	39.85
67	46.66	62.71	62.71

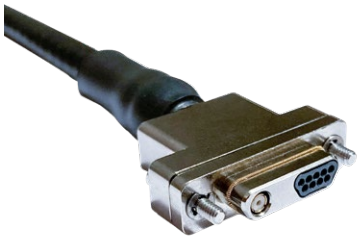


PCB MOUNTING PATTERN FOR GMMD-HRPE HORIZONTAL PANEL-SEALED EDGE-LAUNCHED PCB-MOUNT (SMT MOUNT - COMPONENT SIDE)

			D	E	F
50ohm hybrid			3.175	3.01	0.925
75ohm hybrid			4.15	3.53	1.325
	Shell size	Arrangement			
50ohm only	9	2C	2.54	3.645	0.925
	21	4C	2.54	4.915	0.925
	25	6C	2.54	3.645	0.925
	3	8C	2.54	3.01	0.925
	51-2	12C	2.54	4.28	0.925
	67	16C	2.54	4.28	0.925
75ohm only	9	2V	3.5	3.165	1.325
	15	3V	3.5	3.32	1.325
	21	4V	3.5	3.475	1.325



Coax and combo coax jumper assemblies
Plug-to-plug • plug-to-receptacle • receptacle-to-receptacle



Back-to-back Coax cable assemblies provide a turnkey solution for easy on-site installation. Assemblies are supplied with GMMD plug or receptacle on each end in a choice of any coax or combo contact arrangement. Environmental seal options are available for plug connectors. 50Ω and 75Ω Coax cable may be ordered in flexible or semi-rigid configurations, standard M22759/33 signal cable in 24 – 30 AWG. EMI shielded with five optional braid materials, including Glenair Signature weight-saving composite microfilament AmberStrand or microfilament stainless steel ArmorLite. Outer jacket options available for environmental and abrasion protection. Integral backshells, hardware, and wire exit direction all fully customizable.

HOW TO ORDER

Sample Part Number	**GMMD**	**-FPE**	**2C15**	**-C**	**M**	**A**	**N**	**R**	**L**	**5**	**-FPE**	**T**	**S**	**3**	**2**	**-800**	**-2**

Series	**GMMD** = Glenair Modular High-Speed Micro-D
Connector 1 Type	**FP** = Plug **FPE** = Plug Environmental **FR** = Receptacle **FRP** = Rear Panel Mount Receptacle
Contact Arrangement	**2C9** = 2 X 50Ω Coax + 9 X #24 discretes **4V15** = 4 X 75Ω Coax + 15 X #24 discretes **8C** = 8 X 50Ω Coax
Coax Cable	**-C** = 50Ω RG178 **-V** = 75Ω RG179 **-D** = 50Ω 047 Semi-Rigid **-W** = 75Ω Semi-Rigid **-E** = 50Ω 047 Flexible
Signal Cables*	**L** = 24AWG M22759/33 wire **N** = 28AWG M22759/33 wire **M** = 26AWG M22759/33 wire **O** = 30AWG M22759/33 wire
Shield Options	**A** = SnCu braid (100-001A) **B** = 100% AmberStrand (103-026) **C** = 100% ArmorLite (103-051) **E** = AgCu braid (100-002A) **F** = NiCu braid (100-003A) **N** = no braid
Jacket Options	**D** = Thin-Wall Heatshrink (VG 95343 part 5 type D) **G** = Monofilament PEEK braid (102-051) **H** = Nomex® Braid (103-013) **J** = LSZH Heatshrink (-30°C to +105°C; VG 95343 part 5 type L) **N** = No Jacket
Backshell 1 Type	**T** = Straight Backshell **R** = 90° Backshell **F** = 45° Backshell **0** = no backshell
Wire Exit Direction	**L** = in direction of long row of D-form **S** = in direction of short row of D-form (for straight or no backshell, **L** is the default)
Hardware Options 1	See Hardware Options Table
Connector 2 Type	**FP** = Plug **FPE** = Plug Environmental **FR** = Receptacle **FRP** = Rear Panel Mount Receptacle
Backshell 2 Type*	**T** = Straight Backshell **R** = 90° Backshell **F** = 45° Backshell **0** = no backshell
Wire Exit Direction*	**L** = in direction of long row of D-form **S** = in direction of short row of D-form
Hardware Options 2*	See Hardware Options Table
Shell Material / Finish	**-2** = Aluminum / Electroless Nickel **-3** = Stainless Steel / Passivated **-5** = Aluminum / Gold **-6** = Aluminum / Alochromate **-7** = Aluminum / Nickel-PTFE **-8** = Aluminum / Zinc-Nickel, Black
Overall Length	mm (metric)
Gasket Material for FPE and FRP*	**-1** = Fluorosilicone **-2** = Passivated silver-plated aluminum-filled fluorosilicone **-3** = Nickel-plated aluminum-filled fluorosilicone

* - Omit if not used

Coax and combo coax single-ended flying lead pigtail assemblies
Shielded and unshielded • plug or receptacle

Flying lead Coax cable assemblies provide a flexible solution for easy on-site installation. Assemblies are supplied with GMMD plug or receptacle on one end in a choice of any Coax or combo contact arrangement. Environmental seal options are available for plug connectors. 50Ω and 75Ω Coax cable may be ordered in flexible or semi-rigid configurations. Signal cable available in 24 – 30 AWG. EMI shielded with five optional braid materials, including Glenair Signature weight-saving composite microfilament AmberStrand or microfilament stainless steel ArmorLite. Outer jacket options available for environmental and abrasion protection. Integral backshell, hardware, and wire exit direction all fully customizable. Consult factory for space-flight specific applications.

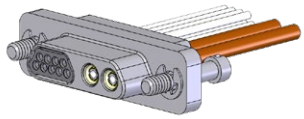
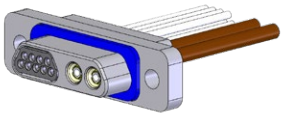
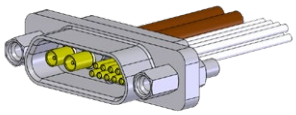
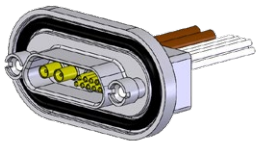
HOW TO ORDER

Sample Part Number	**GMMD**	**-FPE**	**2C9**	**-A**	**M**	**A**	**N**	**R**	**L**	**5**	**0**	**2**	**-800**
Series	**GMMD** = Glenair Modular High-Speed Micro-D												
Connector 1 Type	**FP** = Plug **FPE** = Plug Environmental **FR** = Flying Lead Receptacle **FRP** = Rear Panel Mount Flying Lead Receptacle												
Contact Arrangement	See Table. Consult factory for additional arrangements.												
Coax Cable	**-C** = 50Ω RG178 **-V** = 75Ω RG179 **-D** = 50Ω 047 Semi-Rigid **-W** = 75Ω Semi-Rigid **-E** = 50Ω 047 Flexible												
Signal Cables*	**L** = 24AWG M22759/33 wire **N** = 28AWG M22759/33 wire **M** = 26AWG M22759/33 wire **O** = 30AWG M22759/33 wire												
Shield Options	**A** = SnCu braid (100-001A) **B** = 100% AmberStrand (103-026) **C** = 100% ArmorLite (103-051) **E** = AgCu braid (100-002A) **F** = NiCu braid (100-003A) **N** = no braid												
Jacket Options	**D** = Thin-Wall Heatshrink (VG 95343 part 5 type D) **G** = Monofilament PEEK braid (102-051) **H** = Nomex® Braid (103-013) **J** = LSZH Heatshrink (-30°C to +105°C; VG 95343 part 5 type L) **N** = No Jacket												
Backshell Type	**T** = Straight Backshell **R** = 90° Backshell **F** = 45° Backshell **0** = no backshell												
Wire Exit Direction	**L** = in direction of long row of D-form **S** = in direction of short row of D-form (for straight or no backshell, **L** is the default)												
Hardware Options	See Hardware Options Table												
[no second connector]	**0**												
Shell Material / Finish	**-2** = Aluminum / Electroless Nickel **-3** = Stainless Steel / Passivated **-5** = Aluminum / Gold **-6** = Aluminum / Alochromate **-7** = Aluminum / Nickel-PTFE **-8** = Aluminum / Zinc-Nickel, Black												
Overall Length	mm (metric)												
Gasket Material for FPE and FRP*	**-1** = Fluorosilicone **-2** = Passivated silver-plated aluminum-filled fluorosilicone **-3** = Nickel-plated aluminum-filled fluorosilicone												

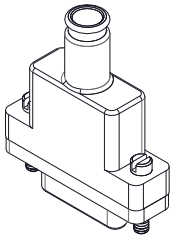
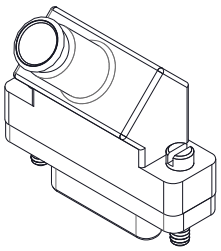
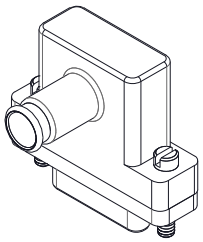
* - Omit if not used

Coax and combo coax jumpers and pigtails
Selection guide • plug backshell options • hardware

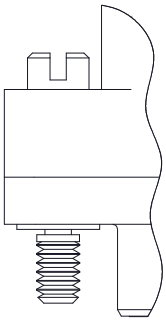
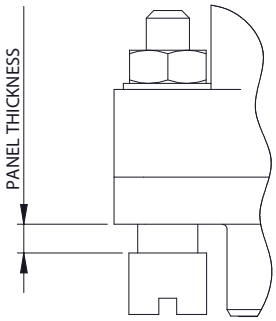
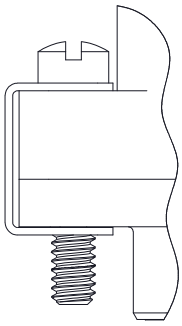
COAX AND COMBO COAX CABLE ASSEMBLY CONNECTOR SELECTION GUIDE

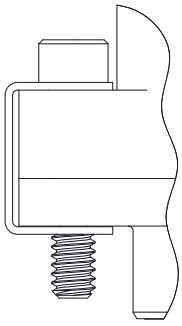
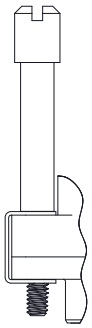
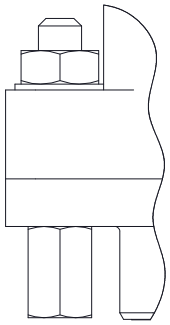
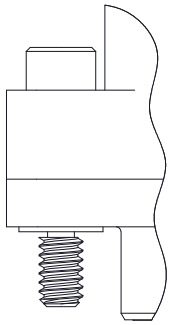
			
GMMD-FP Cable Plug	**GMMD-FPE** Cable Plug, Environmental	**GMMD-FR** Cable Receptacle	**GMMD-FRP** Rear Panel Mount Cable Receptacle

PLUG BACKSHELL OPTIONS

		
GMMD-*-T** Top Entry	**GMMD-***-F** 45° Entry	**GMMD-***-R** 90° Side Entry

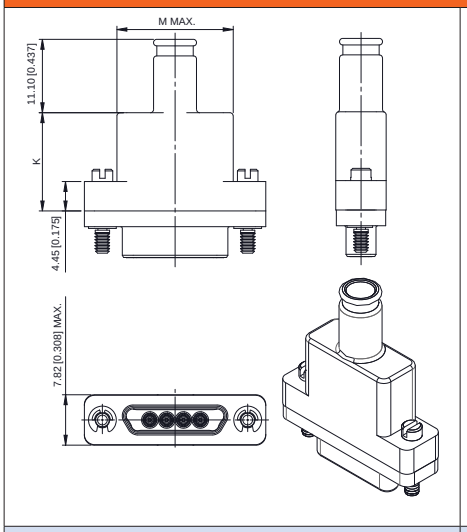
HARDWARE OPTIONS (BACKSHELLS SHOWN FOR REFERENCE ONLY)

		
1 - Circlip-Retained Jackscrew	Rear Panel Mount Jackpost Nut (specify letter for panel thickness) **T**=2.4 **U**=2.0 **V**=1.6 **W**=1.2 **X**=0.8 **Y**=0.6	**3** - Clip-Retained Fillister Head Jackscrew

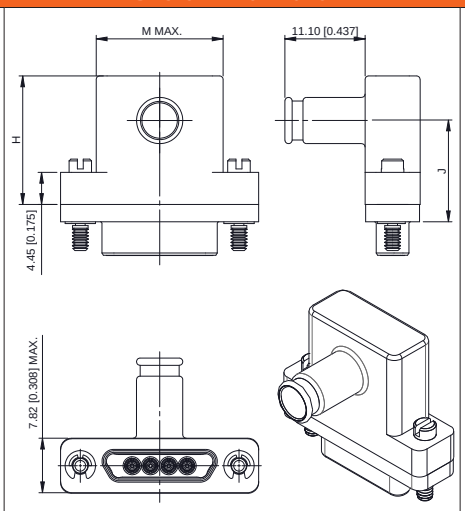
			
4 - Clip-Retained Socket Head Jackscrew	**5** - Clip-Retained Extended Jackscrew	**S** - Hexagonal Jackpost, Nut and Spring Washer	**7** - Circlip-retained socket head jackscrew

Coax and combo coax jumpers and pigtails
Backshell dimensional details

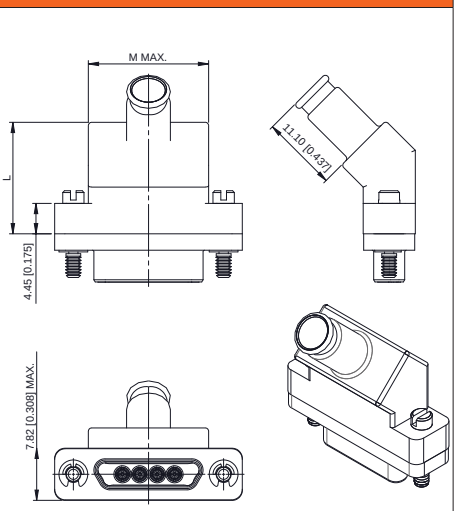
BACKSHELL OPTIONS



Type T - Straight



Type R - Right Angle



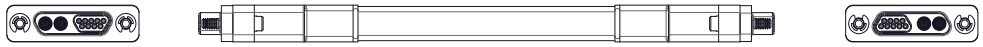
Type F -45° Angle

PLUG AND BACKSHELL DIMENSIONS

Shell size	H (mm)	J (mm)	K (mm)	L (mm)	M (mm)
9	16.20	11.10	8.90	15.01	10.16
15	17.10	11.20	11.95	16.01	13.97
21	18.00	11.70	15.00	16.76	17.78
25	19.00	12.30	16.50	16.81	20.32
31	19.20	12.10	18.00	16.84	27.94
37	19.70	12.10	19.00	17.24	36.83
51-2	21.80	13.90	19.80	17.24	47.18
67	21.80	13.90	19.80	18.86	57.34

Coax and combo coax jumpers and pigtails
Cable configurations

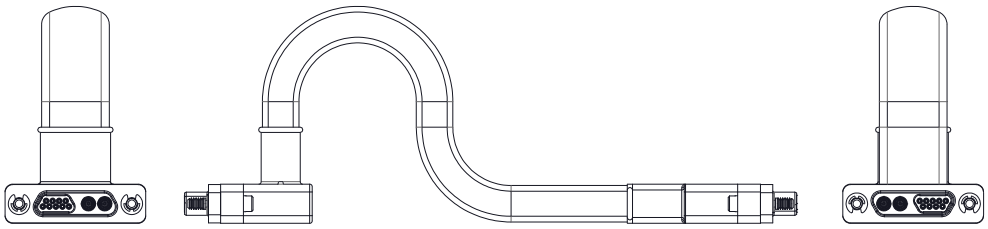
Straight-to-Straight



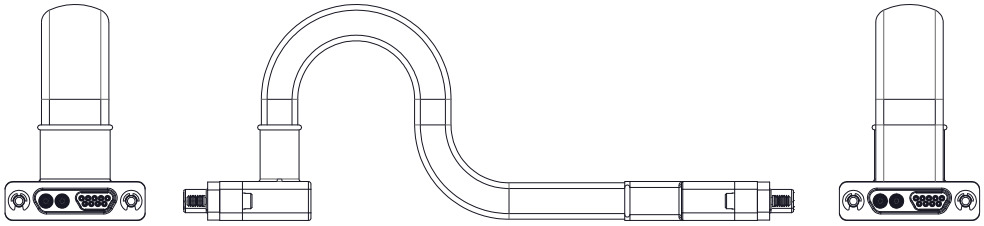
TL-TS

TL-TL

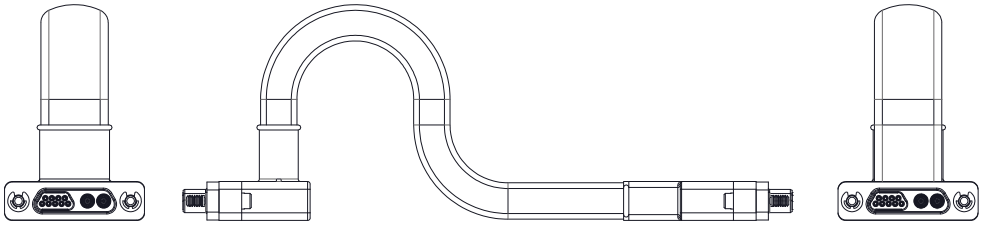
Right Angle-to-Straight



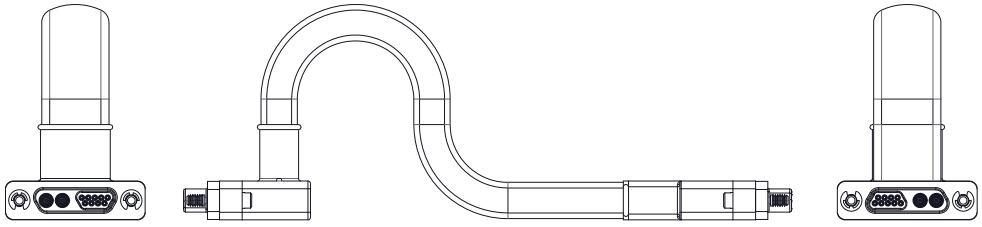
RS-TL



RL-TL



RS-TS



RL-TS

Coax and combo coax jumpers and pigtails
Cable configurations

Right Angle-to-Right Angle

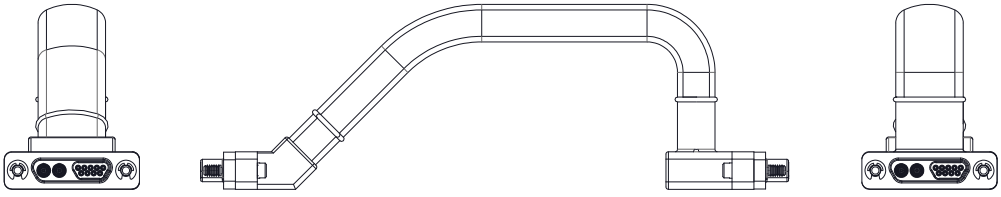
RL-RL

RL-RS

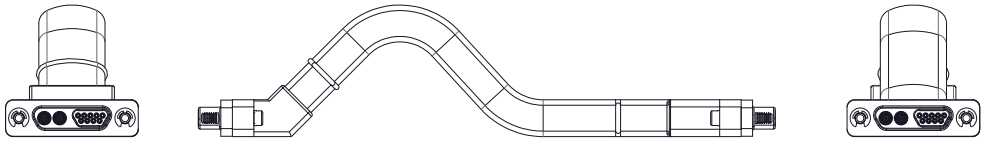
RS-RS

45°-to-Right Angle and Straight

FL-FS



FL-RL



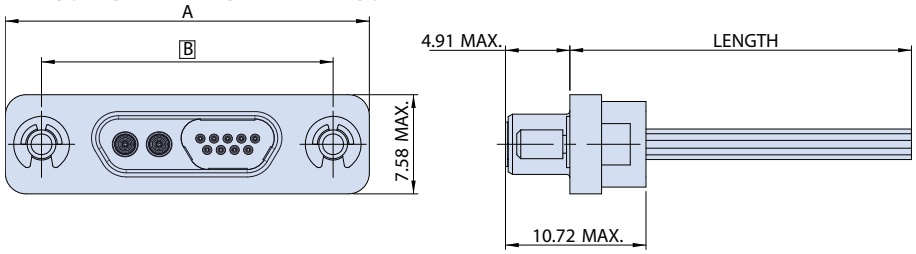
FL-TL

Coax and combo coax jumpers and pigtails
Plug-to-plug • plug-to-receptacle • receptacle-to-receptacle

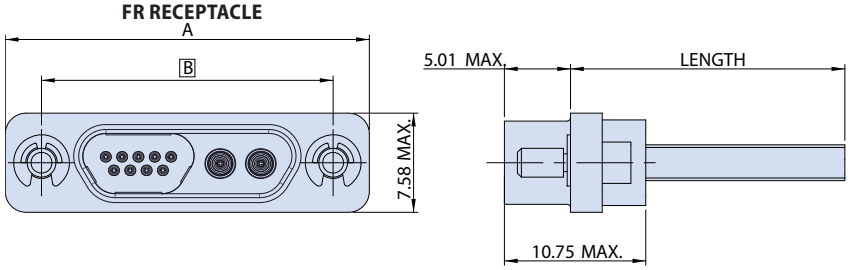
GMMD FLYING LEAD CABLE ASSEMBLY CONNECTOR DIMENSIONS

Shell size	A (mm)	B (mm)
9	19.84	14.35
15	23.65	18.16
21	27.46	21.97
25	30.00	24.51
31	33.81	28.32
37	37.62	32.13
51-2	46.51	41.02
67	56.67	51.18

FP PLUG AND FPE ENVIRONMENTAL PLUG

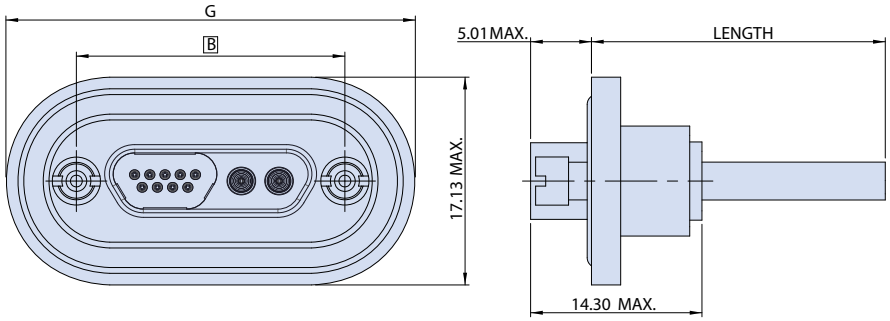


FR RECEPTACLE



Shell size	B (mm)	G (mm)
9	14.35	25.88
15	18.16	29.69
21	21.97	33.50
25	24.51	36.04
31	28.32	39.85
37	32.13	43.66
51-2	41.02	52.55
67	51.18	62.71

FRP REAR PANEL MOUNT RECEPTACLE



GMMD COAX AND COMBO COAX CONTACT ARRANGEMENTS (additional arrangements are available, consult factory)

Contact Arrangement	**2C**	**4C**	**6C**
Shell Size	9	21	25
No. / type of contacts	2 X 50Ω Coax	4X 50Ω Coax	6X 50Ω Coax

Contact Arrangement	**8C**	**16C**
Shell Size	31	67
No. / type of contacts	8 X 50Ω Coax	16X 50Ω Coax

Contact Arrangement	**1C9**	**2C9**	**1V9**	**2V9**	**4V**
Shell Size	15	21	21	31	21
No. / type of contacts	1 X 50Ω Coax 9 X #24	2X 50Ω Coax, 9 X #24	1 X 75Ω Coax, 9 X #24	2 X 75Ω Coax, 9 X #24	4 X 75Ω Coax

GMMD Plug-to-Coax contact jumper assembly for inside-the-box coax contact connectivity

GMMD Plug-to-Coax contact jumpers provide a turnkey solution for inside-the-box coax contact connectivity. Sixteen contact arrangements in eight shell sizes are offered for Size #8 BMB, Size #12 SMPM, or Size #16 SMPS Coax contacts, with three cable type options.

HOW TO ORDER

Sample Part Number	GMMD	-FPCC	2C	-E	-SMPM	-S	-2	-150

Series	**GMMD** = Glenair Modular High-Speed Micro-D
GMMD Connector	**-FPCC** = Plug
Contact Arrangement	See Table.
Coax Cable Type (see Compatibility table)	**-D** = 962-014-047 Semi-Rigid 50Ω Coax **-E** = 047 Flexible 50Ω Coax
Coax Contact Type (see Compatibility table)	**-BMB** = #8 Pin **-SMPM** = #12 Pin **-SMPS** = #16 Pin
Coax Contact Orientation	**S** = Straight
Shell Material / Finish	**2** = Aluminum / Electroless Nickel
Flying Lead Length	mm (metric). e.g. **-150** = 150mm (see length tolerance table)

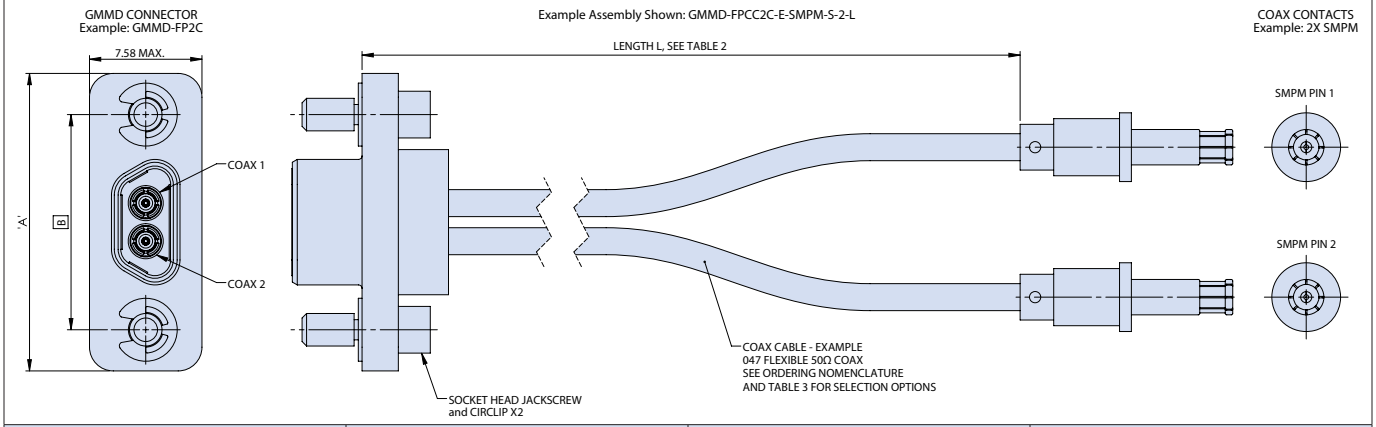
FLYING LEAD LENGTH TOLERANCE PER IPC 620

<0.3m [<1.0 ft]	+25mm -0mm [+0.98" -0"]
>0.3m - 1.5m [>1.0 ft - 4.9 ft]	+50mm -0mm [+1.96" -0"]
>1.5m - 3.0m [>4.9 ft - 9.8 ft]	+100mm -0mm [+3.94" -0"]
>3.0m - 7.5m [>9.8 ft - 24.6 ft]	+150mm -0mm [+5.91" -0"]
>7.5m [>24.6ft]	+5% - 0%

COAX CABLE / CONTACT COMPATIBILITY

Coax Contact Type	Coax Cable Type		
	-D = 962-014-047 Semi-Rigid 50Ω Coax	**-E** = 047 Flexible 50Ω Coax	**-F** = 962-010-405 Flexible 50Ω Coax
-BMB #8 Pin	852-071-06	852-071-06	852-071-05
-SMPM #12 Pin	852-099-03	852-099-03	852-099-01
-SMPS #16 Pin	852-133-01	852-133-01	N/A

CONTACT ARRANGEMENTS / DIMENSIONS



COAX COUNT	SHELL SIZE	A MAX.	B
1C,2C	9	19.89 [0.782]	14.35 [0.565]
3C	15	23.70 [0.932]	18.16 [0.715]
4C,5C	21	27.51 [1.082]	21.97 [0.865]
6C	25	30.05 [1.182]	24.51 [0.965]
7C	31	33.86 [1.332]	28.32 [1.115]
8C,9C	37	37.67 [1.482]	32.13 [1.265]
10C,11C,12C	51-2	46.56 [1.832]	41.02 [1.615]
13C,14C,15C,16C	67	56.72 [2.232]	46.48 [1.830

Selection Guide: RF Connector Adapters

Series 852 RF Adapters

Precision-grade ***Series 852 RF Adapters*** are used to connect between series or within a series. Frequently used as connector savers, male-female adapters protect RF jacks on instruments from excessive wear-and-tear. 45° and 90° angled SMA male-female adapters provide extra clearance in cramped quarters.

TNC–SMA Adapters Page 18

TNC Male-SMA Female
852-160

TNC Female-SMA Female
852-161

TNC Female-SMA Female, Square Flange
852-162

TNC Female-SMA Female, Jam Nut
852-163

N–SMA Adapters Page 19

N Male-SMA Female
852-164

N Female-SMA Female
852-165

N Female-SMA Female, Jam Nut
852-166

N Female-SMA Female, Square Flange
852-167

SMA–SMA Adapters Page 20, 21

SMA Male-SMA Female
852-168

SMA Female-SMA Female
852-169

SMA Female-SMA Female, Jam Nut
852-170

SMA Male-SMA Female, 45° Angle
852-183

SMA Male-SMA Female, 90° Angle
852-182

SMP–SMA Adapters Page 22

SMP Male-SMA Female Full Detent
852-173

SMP Male-SMA Female Smooth Bore
852-174

SMP Female-SMA Female
852-175

2.92–SMA Adapters Page 23

2.92 Male-SMA Female
852-171

2.92 Female-SMA Female
852-172

BNC–SMA Adapters Page 24

BNC Male-SMA Female
852-189

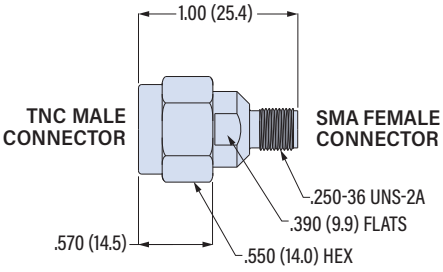
TNC–SMA Adapters

852-160 TNC MALE TO SMA FEMALE ADAPTER

TNC Male / SMA Female. Connect TNC jack to SMA plug with 852-160 adapter. Stainless steel body with gold-plated BeCu contact, PTFE insulator, nickel-plated phos bronze lock ring, and silicone gasket.

- **Operating temperature:** -45 °C to +125 °C
- **Frequency range:** DC – 18 GHz
- **VSWR:** 1.20 maximum
- **Impedance:** 50 ohm

PART NUMBER
852-160

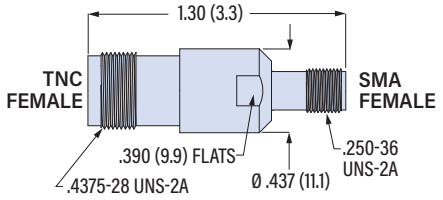


852-161 TNC FEMALE TO SMA FEMALE ADAPTER

TNC Female / SMA Female. Connect TNC plug to SMA plug with 852-161 adapter. Stainless steel body, gold-plated BeCu contact, PTFE insulator.

- **Operating temperature:** -45 °C to +125 °C
- **Frequency range:** DC – 18 GHz
- **VSWR:** 1.20 maximum
- **Impedance:** 50 ohm

PART NUMBER
852-161

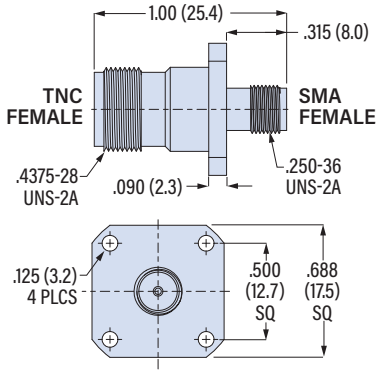


852-162 TNC FEMALE TO SMA FEMALE ADAPTER, SQUARE FLANGE

TNC Female / SMA Female. 4 Hole Flange. Connect TNC plug to SMA plug with 852-162 adapter. Stainless steel body, gold-plated BeCu contact, PTFE insulator.

- **Operating temperature:** -45 °C to +125 °C
- **Frequency range:** DC – 18 GHz
- **VSWR:** 1.20 maximum
- **Impedance:** 50 ohm

PART NUMBER
852-162

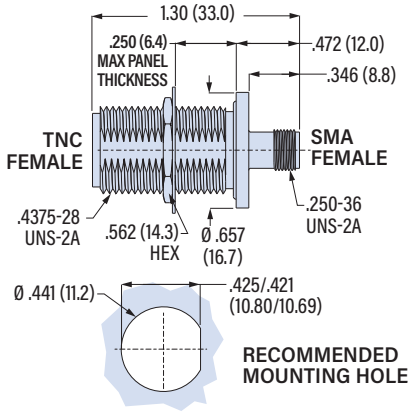


852-163 TNC FEMALE TO SMA FEMALE ADAPTER, JAM NUT

TNC Female / SMA Female. Jam nut panel mounting. Connect TNC plug to SMA plug with 852-163 adapter. Stainless steel body and hex nut. Gold-plated BeCu contact. Nickel-plated brass lock washer, PTFE insulator, silicone O-ring.

- **Operating temperature:** -45 °C to +125 °C
- **Frequency range:** DC – 18 GHz
- **VSWR:** 1.20 maximum
- **Impedance:** 50 ohm

PART NUMBER
852-163



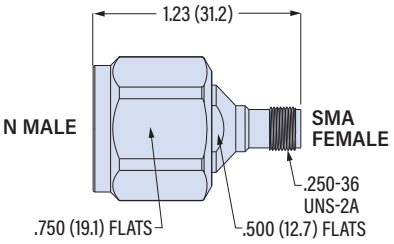
N-SMA Adapters

852-164 N MALE TO SMA FEMALE ADAPTER

N Male / SMA Female. Connect N jack to SMA plug with 852-164 adapter. Stainless steel body with gold-plated BeCu contact, PTFE insulator, nickel-plated phos bronze lock ring, and silicone gasket.

- **Operating temperature:** -55 °C to +165 °C
- **Frequency range:** DC – 18 GHz
- **VSWR:** 1.20 maximum
- **Impedance:** 50 ohm

PART NUMBER
852-164

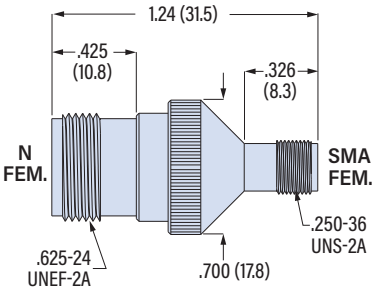


852-165 N FEMALE TO SMA FEMALE ADAPTER

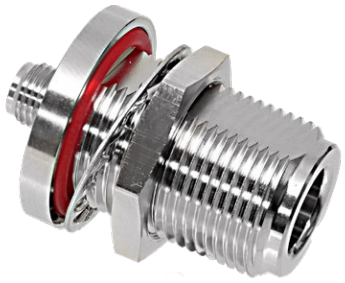
N Female / SMA Female. Connect N plug to SMA plug with 852-165 adapter. Stainless steel body, gold-plated BeCu contact, PTFE insulator.

- **Frequency range:** DC – 18 GHz
- **VSWR:** 1.20 maximum
- **Impedance:** 50 ohm

PART NUMBER
852-165



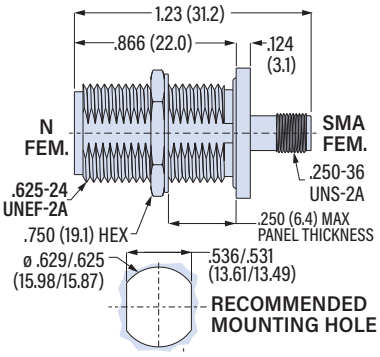
852-166 N FEMALE TO SMA FEMALE ADAPTER, JAM NUT



N Female / SMA Female. Connect N plug to SMA plug with 852-166 panel mount adapter. Nickel-plated brass body and hex nut. Gold-plated BeCu contact. Stainless steel lock washer, PTFE insulator, silicone O-ring.

- **Operating temperature:** -45 °C to +125 °C
- **Frequency range:** DC – 18 GHz
- **VSWR:** 1.20 maximum
- **Impedance:** 50 ohm

PART NUMBER
852-166

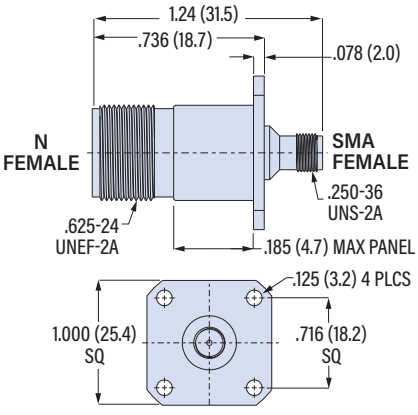


852-167 N FEMALE TO SMA FEMALE ADAPTER, SQUARE FLANGE

N Female / SMA Female. Connect N plug to SMA plug with 852-167 panel mount adapter. Stainless steel body, gold-plated BeCu contact, PTFE insulator.

- **Operating temperature:** -45 °C to +125 °C
- **Frequency range:** DC – 18 GHz
- **VSWR:** 1.20 maximum
- **Impedance:** 50 ohm

PART NUMBER
852-167



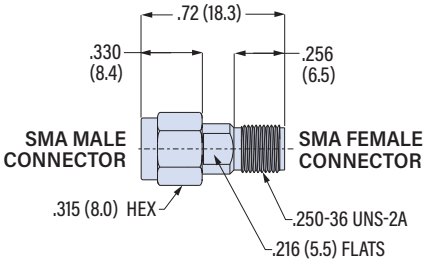
SMA–SMA Adapters

852-168 SMA MALE TO SMA FEMALE ADAPTER

SMA Male / SMA Female. 852-168 connector saver adapter protects equipment from wear and tear. Stainless steel body and coupling nut, gold-plated BeCu contact, PTFE insulator, stainless steel lock ring and silicone gasket.

- **Frequency range:** DC – 18 GHz
- **VSWR:** 1.15 maximum
- **Impedance:** 50 ohm

PART NUMBER
852-168

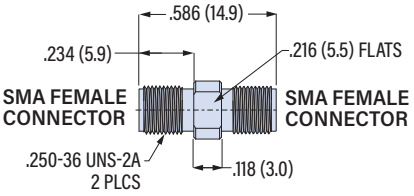


852-169 SMA FEMALE TO SMA FEMALE ADAPTER

SMA Female / SMA Female. 852-169 gender changer adapter connects two SMA plugs. Stainless steel body, gold-plated BeCu contact, PTFE insulator.

- **Frequency range:** DC – 18 GHz
- **VSWR:** 1.15 maximum
- **Impedance:** 50 ohm

PART NUMBER
852-169

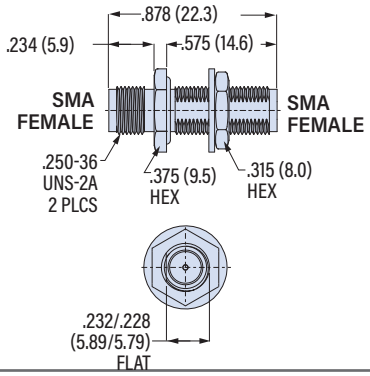


852-170 SMA FEMALE TO SMA FEMALE ADAPTER, PANEL MOUNT

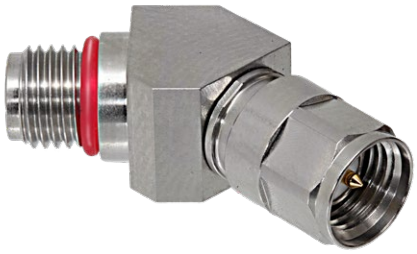
SMA Female / SMA Female. Jam nut panel mount. 852-170 adapter connects two SMA plugs. Stainless steel body, hex nut and lock washer. Gold-plated BeCu contact, PTFE insulator, silicone O-ring.

- **Frequency range:** DC – 18 GHz
- **VSWR:** 1.15 maximum
- **Impedance:** 50 ohm

PART NUMBER
852-170



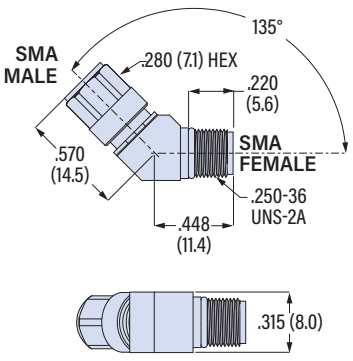
852-183 SMA MALE TO SMA FEMALE, 45° ANGLE



SMA Male / SMA Female. 45°. 852-183 adapter has low profile coupling nut for increased clearance. Gold-plated BeCu contact. Passivated stainless steel body and coupling nut, PTFE insulator, silicone O-ring and gasket, BeCu lock ring.

- **Operating temperature:** -45 °C to +125 °C
- **Frequency range:** DC – 18 GHz
- **VSWR:** 1.30 maximum
- **Impedance:** 50 ohm

PART NUMBER
852-183



SMA–SMA Adapters

852-182 SMA MALE TO SMA FEMALE ADAPTER, RIGHT ANGLE

SMA Male / SMA Female. 852-182 90° adapter connects female SMA to male SMA. Available in six lengths. Stainless steel body and coupling nut. Gold-plated BeCu contact, PTFE insulator, BeCu lock ring. Silicone gasket and O-ring.

- **Operating temperature:** -45 °C to +125 °C
- **Frequency range:** DC – 18 GHz
- **VSWR:** 1.30 maximum
- **Impedance:** 50 ohm

PART NUMBER

Part Number	Fig.	A In.	A mm.	B In.	B mm.
852-182-01	Fig. 1	.626	15.9	.470	11.9
852-182-02	Fig. 2	.770	19.6	.614	15.6
852-182-03	Fig. 2	.990	25.1	.835	21.2
852-182-04	Fig. 2	1.210	30.7	1.055	26.8
852-182-05	Fig. 2	1.330	33.8	1.175	29.8
852-182-06	Fig. 2	1.670	42.4	1.514	38.5

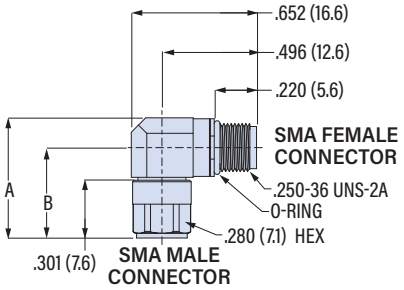


Figure 1
852-182-01

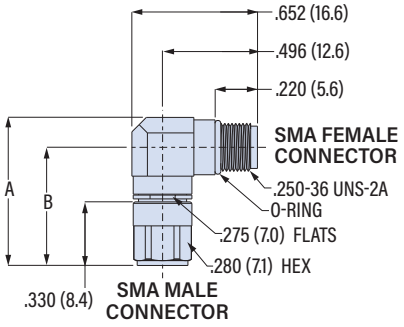
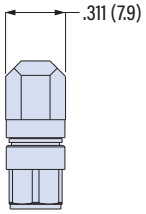


Figure 2
852-182-02 thru -06



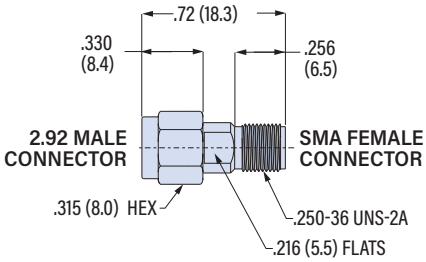
2.92–SMA Adapters

852-171 2.92 MALE TO SMA FEMALE ADAPTER

2.92 Male / SMA Female. 852-171 adapter connects 2.92mm female to SMA male. Stainless steel body, coupling nut and lock ring. Gold-plated BeCu contact, PTFE insulator, silicone gasket.

- **Frequency range:** DC – 18 GHz
- **VSWR:** 1.15 maximum
- **Impedance:** 50 ohm

PART NUMBER
852-171

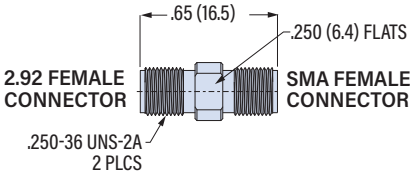


852-172 2.92 FEMALE TO SMA FEMALE ADAPTER

2.92 Female / SMA Female. 852-172 adapter connects 2.92mm male to SMA male. Stainless steel body, gold-plated BeCu contact, PTFE insulator.

- **Frequency range:** DC – 18 GHz
- **VSWR:** 1.15 maximum
- **Impedance:** 50 ohm

PART NUMBER
852-172



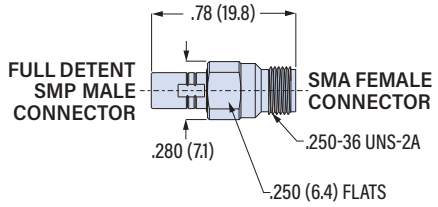
SMP–SMA Adapters

852-173 SMP FULL-DETENT MALE TO SMA FEMALE ADAPTER

SMP Male / SMA Female. 852-173 adapter has full detent SMP male connector interface. Stainless steel body, gold-plated BeCu contact, PTFE insulator.

- **Frequency range:** DC – 26.5 GHz
- **VSWR:** 1.20 maximum
- **Impedance:** 50 ohm

PART NUMBER
852-173

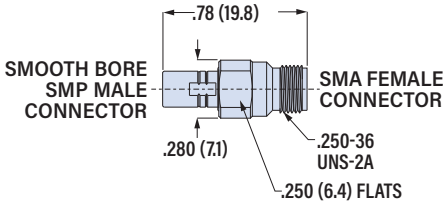


852-174 SMP SMOOTH-BORE MALE TO SMA FEMALE ADAPTER

SMP Male / SMA Female. 852-174 adapter has smooth bore SMP male connector interface. Stainless steel body, gold-plated BeCu contact, PTFE insulator.

- **Frequency range:** DC – 26.5 GHz
- **VSWR:** 1.20 maximum
- **Impedance:** 50 ohm

PART NUMBER
852-174

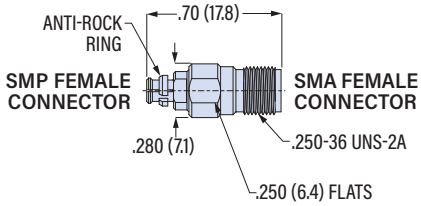


852-175 SMP FEMALE TO SMA FEMALE ADAPTER

SMP female / SMA Female. 852-175 adapter connects male SMP to male SMA connector. Stainless steel body, gold-plated BeCu contact, PTFE insulator. Gold-plated BeCu anti-rock ring.

- **Frequency range:** DC – 26.5 GHz
- **VSWR:** 1.20 maximum
- **Impedance:** 50 ohm

PART NUMBER
852-175



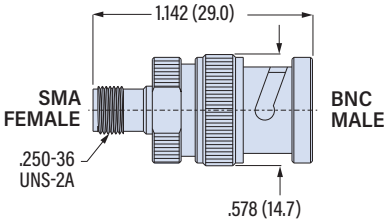
BNC–SMA Adapters

852-189 BNC MALE TO SMA FEMALE ADAPTER

BNC Male / SMA Female. 852-189 adapter connects female BNC to SMA male connector. Stainless steel SMA body, nickel-plated brass BNC body and coupling nut. Gold-plated BeCu contact, PTFE insulator, nickel-plated brass wave washer. Silicone gasket.

- **Operating temperature:** -40 °C to +120 °C
- **Frequency range:** DC – 4 GHz
- **VSWR:** 1.20 maximum
- **Impedance:** 50 ohm

PART NUMBER
852-189



Selection Guide: RF Connector Accessories

RF Connector Accessories

RF connector accessories include ***Protective Covers*** and ***Dummy Receptacles*** for standard RF coax connectors.

Aluminum or stainless steel ***Covers*** have sealing gaskets and a variety of attachment styles.

Panel-mounted ***Dummy Receptacles*** provide stowage and protection for RF cables.

Dummy Receptacles
for RF Connectors

HN
650-072
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SMA
650-073
Page 26

N
650-074
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TNC
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BNC
650-076
Page 27

Protective Covers
for RF Connectors

SMA COVERS

Plug
660-103
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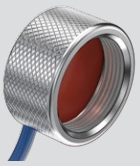
Recep
660-104
Page 29

TYPE N COVERS

Plug
660-105
Page 30



Recep
660-106
Page 31

TNC COVERS

Plug
660-107
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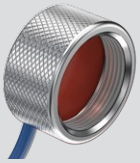

Recep
660-108
Page 33

BNC COVERS

Plug
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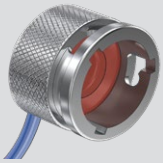

Recep
660-110
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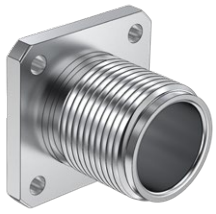
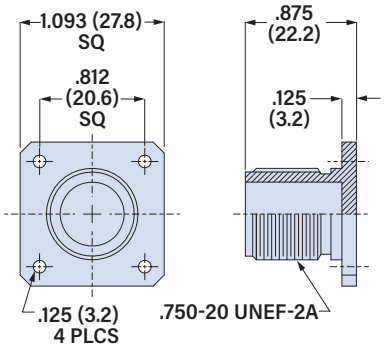
650-072 650-074 650-073

650-072 DUMMY RECEPTACLE FOR TYPE HN COAX RF PLUGS

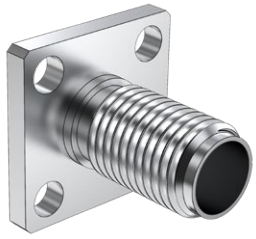


Use dummy stowage receptacle to secure and protect unused plugs. 650-072 receptacle accommodates Type HN coaxial plug connectors. Aluminum, stainless steel or brass.

PART NUMBER		
Aluminum 6061-T6	Electroless Nickel	650-072M
	Black Zinc-Nickel	650-072ZR
	Nickel-PTFE	650-072MT
	O. D. Cadmium	650-072NF
303 SST	Passivate	650-072Z1
	Electroless Nickel	650-072ZM
Brass	Electroless Nickel	650-072BM
	White Bronze	650-072WB

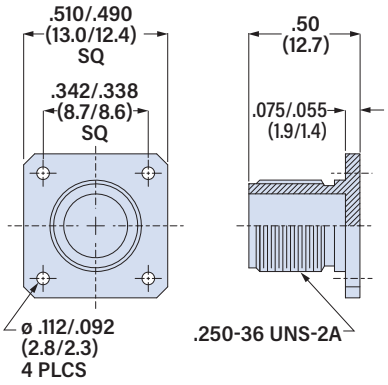


650-073 DUMMY RECEPTACLE FOR SMA COAX RF PLUGS



Use dummy stowage receptacle to secure and protect unused plugs. 650-073 receptacle accommodates M39012 Series SMA connectors. Aluminum, stainless steel or brass.

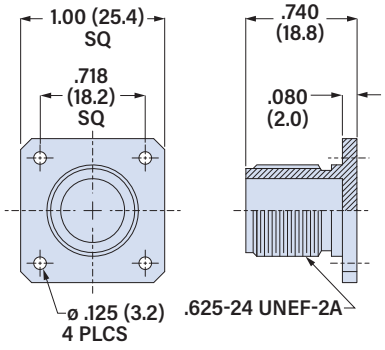
PART NUMBER		
Aluminum 6061-T6	Electroless Nickel	650-073M
	Black Zinc-Nickel	650-073ZR
	Nickel-PTFE	650-073MT
	O. D. Cadmium	650-073NF
303 SST	Passivate	650-073Z1
	Electroless Nickel	650-073ZM
Brass	Electroless Nickel	650-073BM
	White Bronze	650-073WB



650-074 DUMMY RECEPTACLE FOR TYPE N COAX RF PLUGS

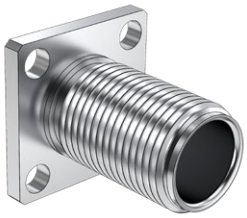
Use dummy stowage receptacle to secure and protect unused plugs. 650-074 receptacle accommodates Type N RF connectors. Aluminum, stainless steel or brass.

PART NUMBER		
Aluminum 6061-T6	Electroless Nickel	650-074M
	Black Zinc-Nickel	650-074ZR
	Nickel-PTFE	650-074MT
	O. D. Cadmium	650-074NF
303 SST	Passivate	650-074Z1
	Electroless Nickel	650-074ZM
Brass	Electroless Nickel	650-074BM
	White Bronze	650-074WB



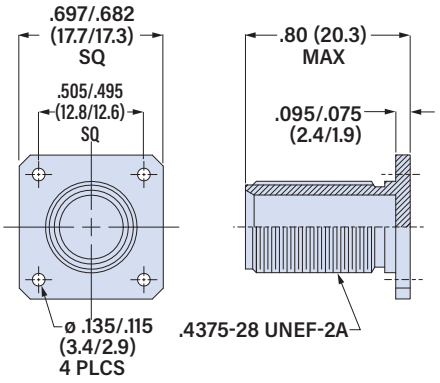
650-075
650-076

650-075 DUMMY RECEPTACLE FOR TNC COAX RF PLUGS

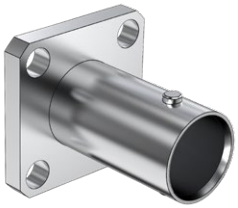


Use dummy stowage receptacle to secure and protect unused plugs. 650-075 receptacle accommodates M39012 Series TNC RF connectors. Aluminum, stainless steel or brass.

PART NUMBER		
Aluminum 6061-T6	Electroless Nickel	650-075M
	Black Zinc-Nickel	650-075ZR
	Nickel-PTFE	650-075MT
	O. D. Cadmium	650-075NF
303 SST	Passivate	650-075Z1
	Electroless Nickel	650-075ZM
Brass	Electroless Nickel	650-075BM
	White Bronze	650-075WB

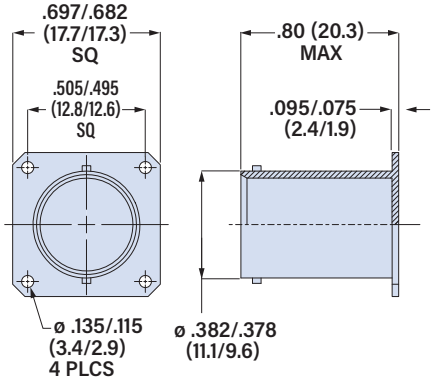


650-076 DUMMY RECEPTACLE FOR BNC COAX RF PLUGS



Use dummy stowage receptacle to secure and protect unused plugs. 650-076 receptacle accommodates M39012 Series BNC RF connectors. Aluminum, stainless steel or brass.

PART NUMBER		
Aluminum 6061-T6	Electroless Nickel	650-076M
	Black Zinc-Nickel	650-076ZR
	Nickel-PTFE	650-076MT
	O. D. Cadmium	650-076NF
303 SST	Passivate	650-076Z1
	Electroless Nickel	650-076ZM
Brass	Electroless Nickel	650-076BM
	White Bronze	650-076WB



Dimensions in Inches (millimeters) are subject to change without notice.

660-103
Protective Cover for SMA Plug

SMA Plug Cover

660-103 protective cover fits SMA plug connectors. Aluminum or stainless steel, with stainless steel fittings. Silicone gasket.

PART NUMBER

	660-103	M	G	06	-4
Base P/N	660-103				
Material/Finish	*See Table 1*				
Attachment Type	**N** No Attachment *See Table 2 for Attachment Types*				
Attachment Ring	*Omit for Attachment Type N* **00** No Ring *See Table 3 for Attachment Ring Codes*				
Attachment Length	*Omit for Attachment Type N* *Length in One Inch Increments*				

TABLE 1 MATERIAL / FINISH

Aluminum		Stainless Steel	
M	Electroless Nickel	Z1	Passivate
NF	Olive Drab Cadmium	ZM	Nickel-plated
MT	Nickel-PTFE		
ZR	Black Zinc-Nickel		

TABLE 2 ATTACHMENT TYPE

D — SST Bead Chain
.125 (3.2) diameter, size 6, -65 to +200 °C

F — Wire Rope, Blue Nylon Jacket
6/6 nylon over stainless steel rope, fair flexibility, good abrasion resistance, -55 to +100 °C

G — Black Nylon Rope
Very flexible, good abrasion and fuel resistance, .094 (2.4) diameter, -55 to +100 °C

H — Wire Rope, Clear FEP Jacket
Clear FEP jacket over SST rope, fair flexibility, good abrasion resistance, .100" diameter, -65 to +200 °C

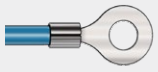
S — Sash Chain
#8 sash chain, stainless steel.
Length tolerance is ± one link .280 (7.1)

T — SST Wire Rope, No Jacket
Good flexibility, good abrasion resistance, .047 (1.2) diameter, passivated, -65 to +200 °C

U — SST Wire Rope, Black Polyurethane
Black polyurethane coating, very flexible, excellent abrasion resistance, .080" (2mm) diameter, -55 to +125 °C

TABLE 3 ATTACHMENT RING

EYELET



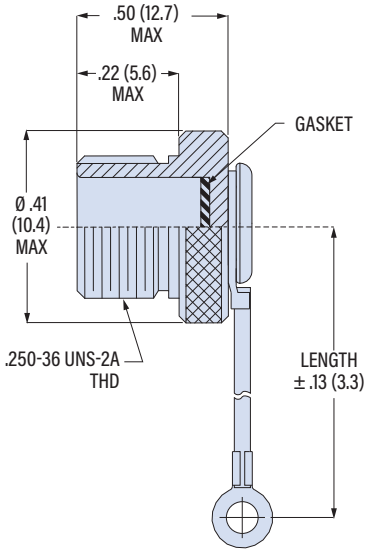
Code	Eyelet I.D.
06	.125 (3.2)
01	.140 (3.6)
02	.182 (4.6)
04	.197 (5.0)

SOLID RING

Code	Ring I.D.
095	.312 (7.9)
100	.391 (9.9)
101	.516 (13.1)
102	.583 (14.8
103	.641 (16.3)
104	.708 (18.0)
105	.766 (19.5)
106	.896 (22.2)
107	1.016 (25.8

SPLIT RING

Code	Ring I.D.
52	.485 (12.3)
54	.640 (16.3)
56	.750 (19.1)
58	.890 (22.6)
60	1.015 (25.8)



660-104
Protective Cover for SMA Receptacle

SMA Receptacle Cover

660-103 protective cover fits SMA plug connectors. Aluminum, stainless steel, or composite. Stainless steel fittings. Silicone gasket.

PART NUMBER

	660-104	Z1	D	101	-5
Base P/N	660-104				
Material/Finish	*See Table 1*				
Attachment Type	**N** No Attachment *See Table 2 for Attachment Types*				
Attachment Ring	*Omit for Attachment Type N* **00** No Ring *See Table 3 for Attachment Ring Codes*				
Attachment Length	*Omit for Attachment Type N* *Length in One Inch Increments*				

TABLE 1 MATERIAL / FINISH

Aluminum		Stainless Steel	
M	Electroless Nickel	Z1	Passivate
NF	Olive Drab Cadmium	ZM	Nickel-plated
MT	Nickel-PTFE		
ZR	Black Zinc-Nickel		

TABLE 2 ATTACHMENT TYPE

D — SST Bead Chain
.125 (3.2) diameter, size 6, -65 to +200 °C

F — Wire Rope, Blue Nylon Jacket
6/6 nylon over stainless steel rope, fair flexibility, good abrasion resistance, -55 to +100 °C

G — Black Nylon Rope
Very flexible, good abrasion and fuel resistance, .094 (2.4) diameter, -55 to +100 °C

H — Wire Rope, Clear FEP Jacket
Clear FEP jacket over SST rope, fair flexibility, good abrasion resistance, .100" diameter, -65 to +200 °C

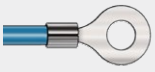
S — Sash Chain
#8 sash chain, stainless steel.
Length tolerance is ± one link .280 (7.1)

T — SST Wire Rope, No Jacket
Good flexibility, good abrasion resistance, .047 (1.2) diameter, passivated, -65 to +200 °C

U — SST Wire Rope, Black Polyurethane
Black polyurethane coating, very flexible, excellent abrasion resistance, .080" (2mm) diameter, -55 to +125 °C

TABLE 3 ATTACHMENT RING

EYELET



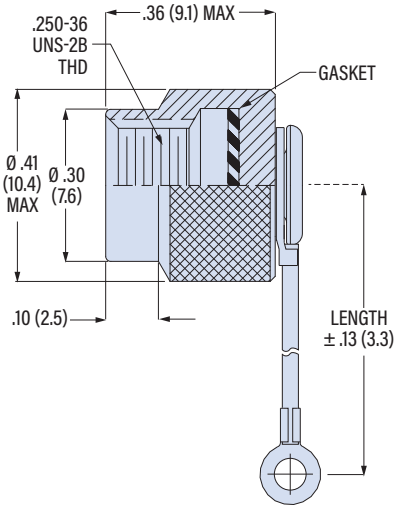
Code	Eyelet I.D.
06	.125 (3.2)
01	.140 (3.6)
02	.182 (4.6)
04	.197 (5.0)

SOLID RING

Code	Ring I.D.
095	.312 (7.9)
100	.391 (9.9)
101	.516 (13.1)
102	.583 (14.8
103	.641 (16.3)
104	.708 (18.0)
105	.766 (19.5)
106	.896 (22.2)
107	1.016 (25.8

SPLIT RING

Code	Ring I.D.
52	.485 (12.3)
54	.640 (16.3)
56	.750 (19.1)
58	.890 (22.6)
60	1.015 (25.8)



Dimensions in Inches (millimeters) are subject to change without notice.

660-105
Protective Cover for Type N Plug

N Plug Cover

660-105 protective cover fits type N plug connectors. Aluminum or stainless steel, with stainless steel fittings. Silicone gasket.

PART NUMBER

	660-105	ZR	U	04	-3
Base P/N	660-105				
Material/Finish	*See Table 1*				
Attachment Type	**N** No Attachment *See Table 2 for Attachment Types*				
Attachment Ring	*Omit for Attachment Type N* **00** No Ring *See Table 3 for Attachment Ring Codes*				
Attachment Length	*Omit for Attachment Type N* *Length in One Inch Increments*				

TABLE 1 MATERIAL / FINISH

Aluminum		Stainless Steel	
M	Electroless Nickel	Z1	Passivate
NF	Olive Drab Cadmium	ZM	Nickel-plated
MT	Nickel-PTFE		
ZR	Black Zinc-Nickel		

TABLE 2 ATTACHMENT TYPE

D — SST Bead Chain
.125 (3.2) diameter, size 6, -65 to +200 °C

F — Wire Rope, Blue Nylon Jacket
6/6 nylon over stainless steel rope, fair flexibility, good abrasion resistance, -55 to +100 °C

G — Black Nylon Rope
Very flexible, good abrasion and fuel resistance, .094 (2.4) diameter, -55 to +100 °C

H — Wire Rope, Clear FEP Jacket
Clear FEP jacket over SST rope, fair flexibility, good abrasion resistance, .100" diameter, -65 to +200 °C

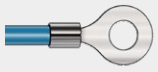
S — Sash Chain
#8 sash chain, stainless steel.
Length tolerance is ± one link .280 (7.1)

T — SST Wire Rope, No Jacket
Good flexibility, good abrasion resistance, .047 (1.2) diameter, passivated, -65 to +200 °C

U — SST Wire Rope, Black Polyurethane
Black polyurethane coating, very flexible, excellent abrasion resistance, .080" (2mm) diameter, -55 to +125 °C

TABLE 3 ATTACHMENT RING

EYELET



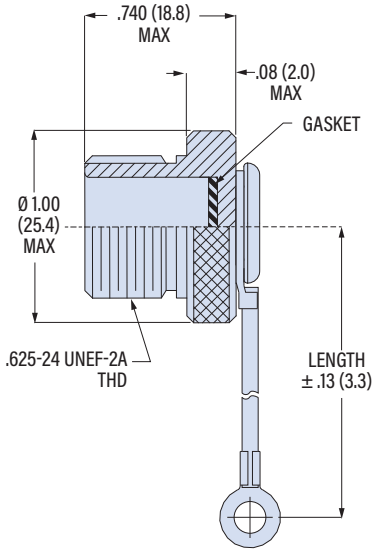
Code	Eyelet I.D.
06	.125 (3.2)
01	.140 (3.6)
02	.182 (4.6)
04	.197 (5.0)

SOLID RING

Code	Ring I.D.
095	.312 (7.9)
100	.391 (9.9)
101	.516 (13.1)
102	.583 (14.8
103	.641 (16.3)
104	.708 (18.0)
105	.766 (19.5)
106	.896 (22.2)
107	1.016 (25.8

SPLIT RING

Code	Ring I.D.
52	.485 (12.3)
54	.640 (16.3)
56	.750 (19.1)
58	.890 (22.6)
60	1.015 (25.8)



660-106
Protective Cover for Type N Receptacle

N Receptacle Cover

660-106 protective cover fits type N plug connectors. Aluminum or stainless steel, with stainless steel fittings. Silicone gasket.

PART NUMBER

	660-106	M	H	52	-4
Base P/N	660-106				
Material/Finish	*See Table 1*				
Attachment Type	**N** No Attachment *See Table 2 for Attachment Types*				
Attachment Ring	*Omit for Attachment Type N* **00** No Ring *See Table 3 for Attachment Ring Codes*				
Attachment Length	*Omit for Attachment Type N* *Length in One Inch Increments*				

TABLE 1 MATERIAL / FINISH

Aluminum		Stainless Steel	
M	Electroless Nickel	Z1	Passivate
NF	Olive Drab Cadmium	ZM	Nickel-plated
MT	Nickel-PTFE		
ZR	Black Zinc-Nickel		

TABLE 2 ATTACHMENT TYPE

D — SST Bead Chain
.125 (3.2) diameter, size 6, -65 to +200 °C

F — Wire Rope, Blue Nylon Jacket
6/6 nylon over stainless steel rope, fair flexibility, good abrasion resistance, -55 to +100 °C

G — Black Nylon Rope
Very flexible, good abrasion and fuel resistance, .094 (2.4) diameter, -55 to +100 °C

H — Wire Rope, Clear FEP Jacket
Clear FEP jacket over SST rope, fair flexibility, good abrasion resistance, .100" diameter, -65 to +200 °C

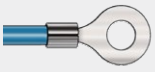
S — Sash Chain
#8 sash chain, stainless steel.
Length tolerance is ± one link .280 (7.1)

T — SST Wire Rope, No Jacket
Good flexibility, good abrasion resistance, .047 (1.2) diameter, passivated, -65 to +200 °C

U — SST Wire Rope, Black Polyurethane
Black polyurethane coating, very flexible, excellent abrasion resistance, .080" (2mm) diameter, -55 to +125 °C

TABLE 3 ATTACHMENT RING

EYELET



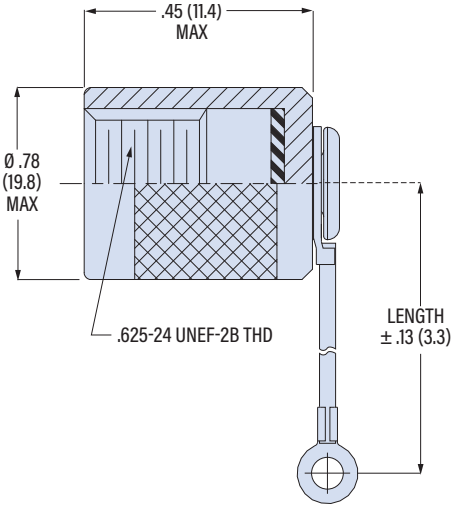
Code	Eyelet I.D.
06	.125 (3.2)
01	.140 (3.6)
02	.182 (4.6)
04	.197 (5.0)

SOLID RING

Code	Ring I.D.
095	.312 (7.9)
100	.391 (9.9)
101	.516 (13.1)
102	.583 (14.8
103	.641 (16.3)
104	.708 (18.0)
105	.766 (19.5)
106	.896 (22.2)
107	1.016 (25.8

SPLIT RING

Code	Ring I.D.
52	.485 (12.3)
54	.640 (16.3)
56	.750 (19.1)
58	.890 (22.6)
60	1.015 (25.8)



Dimensions in Inches (millimeters) are subject to change without notice.

660-107
Protective Cover for TNC Plug

TNC Plug Cover

660-107 protective cover fits TNC plug connectors. Aluminum or stainless steel, with stainless steel fittings. Silicone gasket.

PART NUMBER

	660-107	M	H	095	-4
Base P/N	660-107				
Material/Finish	*See Table 1*				
Attachment Type	**N** No Attachment *See Table 2 for Attachment Types*				
Attachment Ring	*Omit for Attachment Type N* **00** No Ring *See Table 3 for Attachment Ring Codes*				
Attachment Length	*Omit for Attachment Type N* *Length in One Inch Increments*				

TABLE 1 MATERIAL / FINISH

Aluminum		Stainless Steel	
M	Electroless Nickel	Z1	Passivate
NF	Olive Drab Cadmium	ZM	Nickel-plated
MT	Nickel-PTFE		
ZR	Black Zinc-Nickel		

TABLE 2 ATTACHMENT TYPE

D — SST Bead Chain
.125 (3.2) diameter, size 6, -65 to +200 °C

F — Wire Rope, Blue Nylon Jacket
6/6 nylon over stainless steel rope, fair flexibility, good abrasion resistance, -55 to +100 °C

G — Black Nylon Rope
Very flexible, good abrasion and fuel resistance, .094 (2.4) diameter, -55 to +100 °C

H — Wire Rope, Clear FEP Jacket
Clear FEP jacket over SST rope, fair flexibility, good abrasion resistance, .100" diameter, -65 to +200 °C

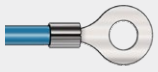
S — Sash Chain
#8 sash chain, stainless steel.
Length tolerance is ± one link .280 (7.1)

T — SST Wire Rope, No Jacket
Good flexibility, good abrasion resistance, .047 (1.2) diameter, passivated, -65 to +200 °C

U — SST Wire Rope, Black Polyurethane
Black polyurethane coating, very flexible, excellent abrasion resistance, .080" (2mm) diameter, -55 to +125 °C

TABLE 3 ATTACHMENT RING

EYELET



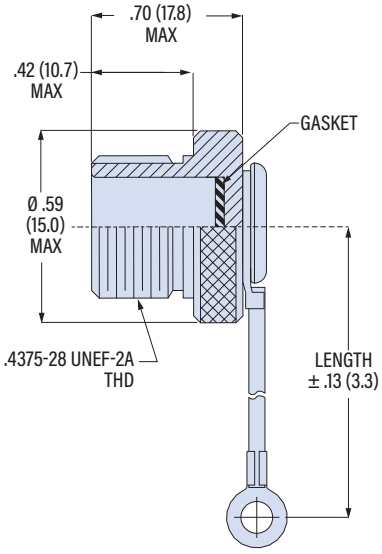
Code	Eyelet I.D.
06	.125 (3.2)
01	.140 (3.6)
02	.182 (4.6)
04	.197 (5.0)

SOLID RING

Code	Ring I.D.
095	.312 (7.9)
100	.391 (9.9)
101	.516 (13.1)
102	.583 (14.8
103	.641 (16.3)
104	.708 (18.0)
105	.766 (19.5)
106	.896 (22.2)
107	1.016 (25.8

SPLIT RING

Code	Ring I.D.
52	.485 (12.3)
54	.640 (16.3)
56	.750 (19.1)
58	.890 (22.6)
60	1.015 (25.8)



660-108
Protective Cover for TNC Receptacle

TNC Receptacle Cover

660-106 protective cover fits type N plug connectors. Aluminum or stainless steel, with stainless steel fittings. Silicone gasket.

PART NUMBER

	660-108	ZR	U	04	-3
Base P/N	660-108				
Material/Finish	*See Table 1*				
Attachment Type	**N** No Attachment *See Table 2 for Attachment Types*				
Attachment Ring	*Omit for Attachment Type N* **00** No Ring *See Table 3 for Attachment Ring Codes*				
Attachment Length	*Omit for Attachment Type N* *Length in One Inch Increments*				

TABLE 1 MATERIAL / FINISH

Aluminum		Stainless Steel	
M	Electroless Nickel	Z1	Passivate
NF	Olive Drab Cadmium	ZM	Nickel-plated
MT	Nickel-PTFE		
ZR	Black Zinc-Nickel		

TABLE 2 ATTACHMENT TYPE

D — SST Bead Chain
.125 (3.2) diameter, size 6, -65 to +200 °C

F — Wire Rope, Blue Nylon Jacket
6/6 nylon over stainless steel rope, fair flexibility, good abrasion resistance, -55 to +100 °C

G — Black Nylon Rope
Very flexible, good abrasion and fuel resistance, .094 (2.4) diameter, -55 to +100 °C

H — Wire Rope, Clear FEP Jacket
Clear FEP jacket over SST rope, fair flexibility, good abrasion resistance, .100" diameter, -65 to +200 °C

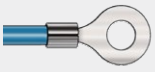
S — Sash Chain
#8 sash chain, stainless steel.
Length tolerance is ± one link .280 (7.1)

T — SST Wire Rope, No Jacket
Good flexibility, good abrasion resistance, .047 (1.2) diameter, passivated, -65 to +200 °C

U — SST Wire Rope, Black Polyurethane
Black polyurethane coating, very flexible, excellent abrasion resistance, .080" (2mm) diameter, -55 to +125 °C

TABLE 3 ATTACHMENT RING

EYELET



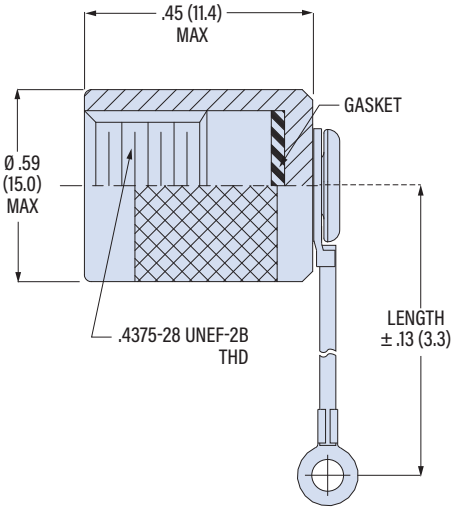
Code	Eyelet I.D.
06	.125 (3.2)
01	.140 (3.6)
02	.182 (4.6)
04	.197 (5.0)

SOLID RING

Code	Ring I.D.
095	.312 (7.9)
100	.391 (9.9)
101	.516 (13.1)
102	.583 (14.8
103	.641 (16.3)
104	.708 (18.0)
105	.766 (19.5)
106	.896 (22.2)
107	1.016 (25.8

SPLIT RING

Code	Ring I.D.
52	.485 (12.3)
54	.640 (16.3)
56	.750 (19.1)
58	.890 (22.6)
60	1.015 (25.8)



Dimensions in Inches (millimeters) are subject to change without notice.

660-109
Protective Cover for BNC Plug

BNC Plug Cover

660-109 protective cover fits BNC plug connectors. Aluminum or stainless steel, with stainless steel fittings. Silicone gasket.

PART NUMBER

	660-109	M	H	095	-4
Base P/N	660-109				
Material/Finish	*See Table 1*				
Attachment Type	**N** No Attachment *See Table 2 for Attachment Types*				
Attachment Ring	*Omit for Attachment Type N* **00** No Ring *See Table 3 for Attachment Ring Codes*				
Attachment Length	*Omit for Attachment Type N* *Length in One Inch Increments*				

TABLE 1 MATERIAL / FINISH

Aluminum		Stainless Steel	
M	Electroless Nickel	Z1	Passivate
NF	Olive Drab Cadmium	ZM	Nickel-plated
MT	Nickel-PTFE		
ZR	Black Zinc-Nickel		

TABLE 2 ATTACHMENT TYPE

D — SST Bead Chain
.125 (3.2) diameter, size 6, -65 to +200 °C

F — Wire Rope, Blue Nylon Jacket
6/6 nylon over stainless steel rope, fair flexibility, good abrasion resistance, -55 to +100 °C

G — Black Nylon Rope
Very flexible, good abrasion and fuel resistance, .094 (2.4) diameter, -55 to +100 °C

H — Wire Rope, Clear FEP Jacket
Clear FEP jacket over SST rope, fair flexibility, good abrasion resistance, .100" diameter, -65 to +200 °C

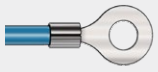
S — Sash Chain
#8 sash chain, stainless steel.
Length tolerance is ± one link .280 (7.1)

T — SST Wire Rope, No Jacket
Good flexibility, good abrasion resistance, .047 (1.2) diameter, passivated, -65 to +200 °C

U — SST Wire Rope, Black Polyurethane
Black polyurethane coating, very flexible, excellent abrasion resistance, .080" (2mm) diameter, -55 to +125 °C

TABLE 3 ATTACHMENT RING

EYELET



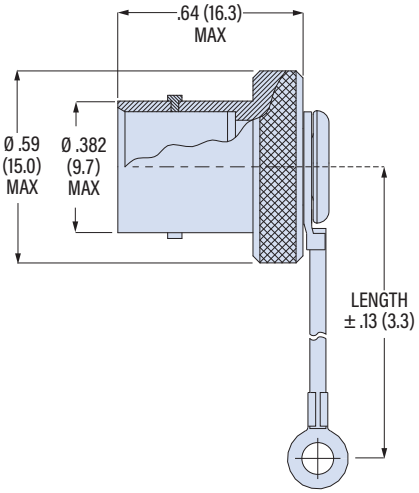
Code	Eyelet I.D.
06	.125 (3.2)
01	.140 (3.6)
02	.182 (4.6)
04	.197 (5.0)

SOLID RING

Code	Ring I.D.
095	.312 (7.9)
100	.391 (9.9)
101	.516 (13.1)
102	.583 (14.8
103	.641 (16.3)
104	.708 (18.0)
105	.766 (19.5)
106	.896 (22.2)
107	1.016 (25.8

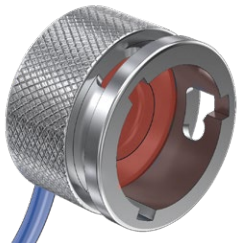
SPLIT RING

Code	Ring I.D.
52	.485 (12.3)
54	.640 (16.3)
56	.750 (19.1)
58	.890 (22.6)
60	1.015 (25.8)



660-110
Protective Cover for BNC Receptacle

BNC Receptacle Cover



660-110 protective cover fits BNC receptacle connectors. Aluminum or stainless steel, with stainless steel fittings. Silicone gasket.

PART NUMBER

	660-110	M	H	095	-4
Base P/N	660-110				
Material/Finish	*See Table 1*				
Attachment Type	**N** No Attachment *See Table 2 for Attachment Types*				
Attachment Ring	*Omit for Attachment Type N* **00** No Ring *See Table 3 for Attachment Ring Codes*				
Attachment Length	*Omit for Attachment Type N* *Length in One Inch Increments*				

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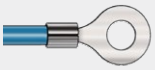
Black polyurethane coating, very flexible, excellent abrasion resistance, .080" (2mm) diameter, -55 to +125 °C

TABLE 3 ATTACHMENT RING

EYELET



Code	Eyelet I.D.
06	.125 (3.2)
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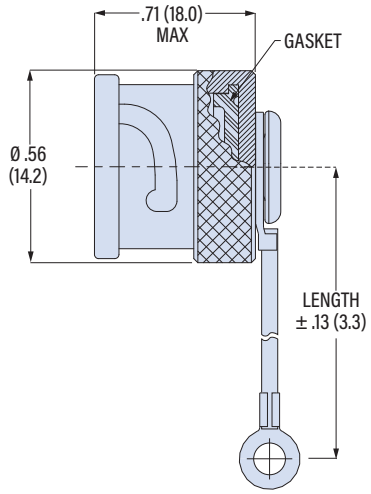


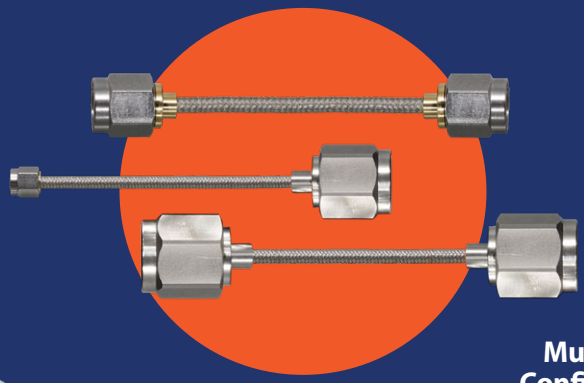
AEROSPACE-GRADE RUGGEDIZED RF, MICROWAVE, AND mmWAVE COAXIAL CABLE ASSEMBLIES

RF

Accurate specification of RF assemblies depends on a thorough understanding of these key variables:

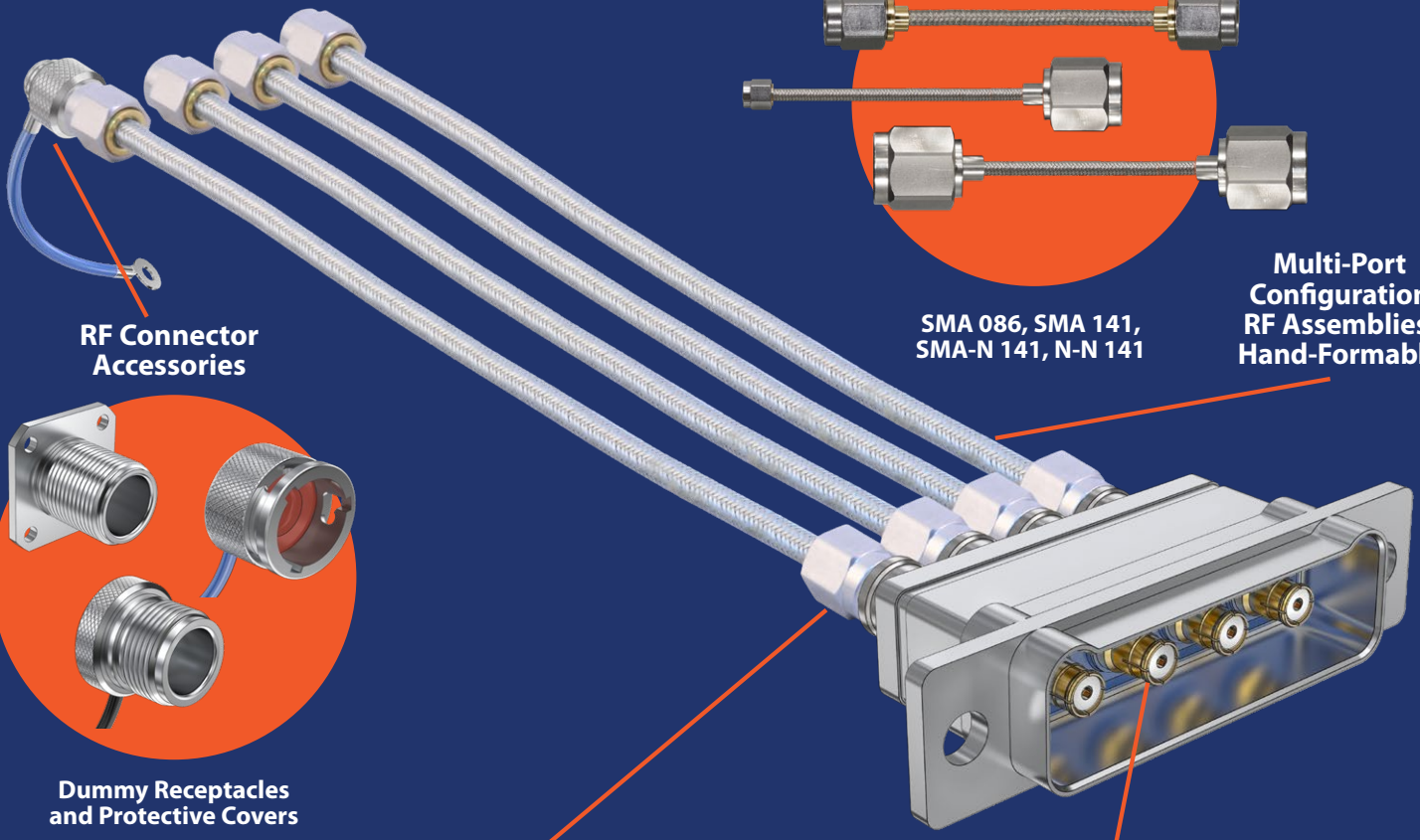
- Operating enviornment (temp, moisture, etc.)
- Operational frequency range
- Insertion Loss budget
- VSWR requirement

50 Ohm Flexible RF Cable Jumpers



SMA 086, SMA 141, SMA-N 141, N-N 141

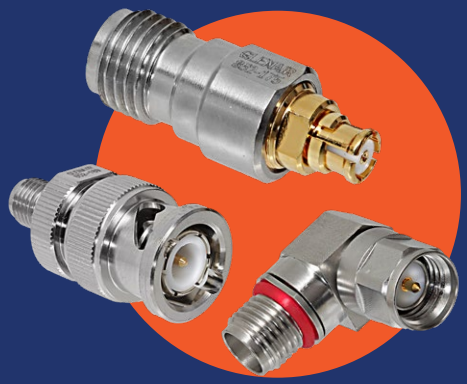
Multi-Port Configuration RF Assemblies: Hand-Formable



RF Connector Accessories

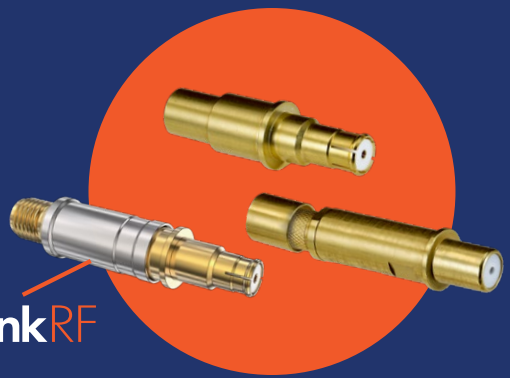
Dummy Receptacles and Protective Covers

Precision-Grade RF Connector Adapters



TNC-SMA, N-SMA, SMA-SMA, SMP-SMA, 2.92-SMA, BNC-SMA

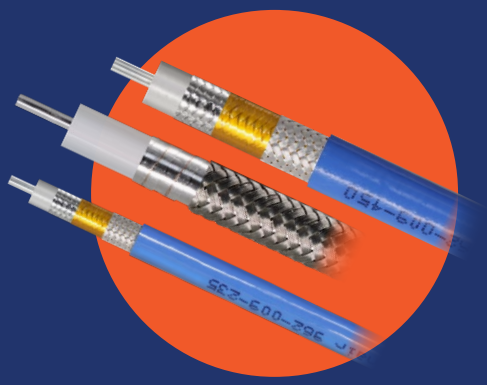
Single-Channel RF Connectors for Multi-Port Shell Configurations sizes #8, #12, #16



G-LinkRF: 26.5 GHz RF BMB-to-SMA contact adapters

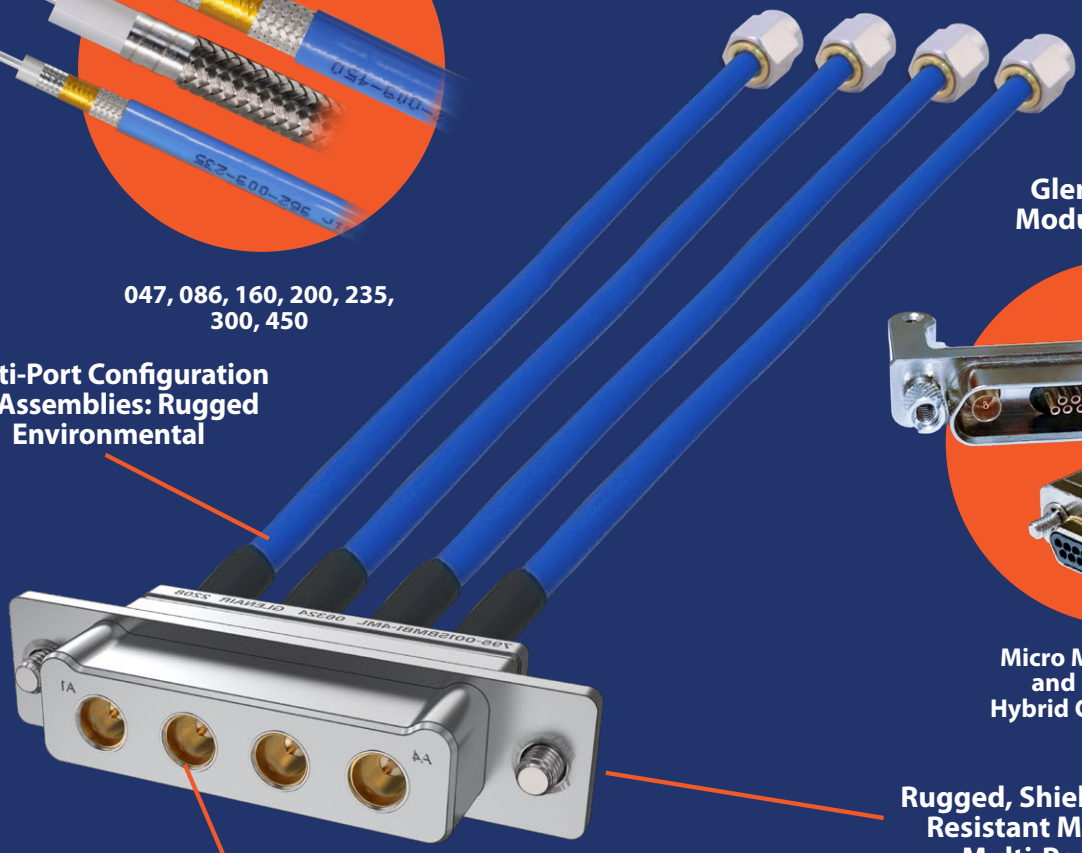
BLUMARK RF COAX CABLES

Mil/Aero-Grade Flexible RF Cables



047, 086, 160, 200, 235, 300, 450

Multi-Port Configuration RF Assemblies: Rugged Environmental



Glenair GMMD Modular Micro-D

Micro Miniature Board and I/O-to-Board Hybrid Coax Connectors

Rugged, Shielded, Vibration-Resistant Mil-Aero Grade Multi-Port RF Shells

SuperNine, Mighty Mouse, Series 806 RF, and Series 795 RF Multi-Port RF Connector Shells

Single-Channel RF Connectors for Multi-Port Shell Configurations sizes #8, #12, #16

G-LinkRF

G-LinkRF: 26.5 GHz RF BMB-to-SMA contact adapters

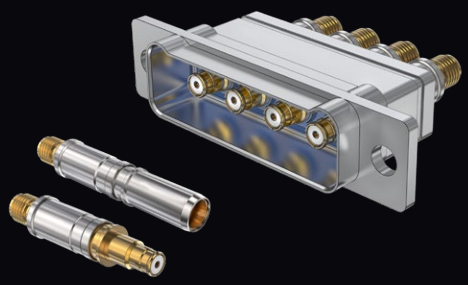
FLIGHT-GRADE

RF, MICROWAVE, AND mmWAVE INTERCONNECTS

turnkey assemblies · discrete components

High-frequency RF interconnects for I/O and cable applications

Micro miniature RF interconnects for board applications



G-Link RF

Glenair multipin aerospace-grade connectors are optimized for use with 18 GHz **G-Link RF** contacts with integral female SMA adapter for easy attachment of SMA adapter and cable directly to the contact.

GLENAIR SIGNATURE MULTI-PIN CONNECTORS FOR RF / MICROWAVE APPLICATIONS

SuperNine®

Series 23 SuperNine "better-than-QPL" MIL-DTL-38999 Series III type connector

MIGHTY MOUSE

Series 80 Mighty Mouse reduced size and weight aerospace-grade connector

SERIES 806 MIL-AERO

Series 806 Mil-Aero micro miniature circular with performance IAW D38999

SERIES 795 RF

Series 795 RF precision-machined aerospace-grade coax connector

50 AND 75 OHM COAX CONTACTS FOR USE IN MULTIPIN AEROSPACE-GRADE CONNECTORS

Size #16 coaxial contacts

Size #12 coaxial contacts

Size #8 coaxial contacts

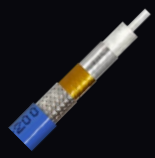
Size #8 concentric twinax contacts

50 OHM LOW-LOSS COAX CABLES

Size 047
26.5 GHz
hand-formable
tin-soaked braid

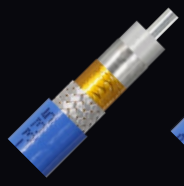
Size 086
40 GHz
FEP or
ETFE jacket

Size 160
18 and 40 GHz,
with FEP or
ETFE jacket,
Low Phase Change



Size 200
26.5 GHz
FEP or
ETFE jacket
triple shield

Size 235
18 GHz,
FEP or
ETFE jacket
triple shield



Size 300
18 GHz,
FEP jacket
triple shield

Size 450
10 GHz,
FEP jacket
triple shield

50 OHM COAX JUMPER ASSEMBLIES WITH LOW-LOSS CABLE AND PRECISION-GRADE CONNECTORS

SMA
086 cable,
tinned-copper braid
DC-18 GHz

SMA
141 cable,
tinned-copper braid
DC-18 GHz

N – SMA
141 cable,
tinned-copper braid
DC-18 GHz

N – N
141 cable,
tinned-copper braid
DC-18 GHz

RF CONNECTOR ADAPTERS AND PROTECTIVE COVERS, PRECISION-GRADE

TNC-SMA
adapters

N-SMA
adapters

SMA-SMA
adapters

SMP-SMA
adapters

2.92-SMA
adapters

Protective covers
for RF connectors

MISSION-CRITICAL

INTERCONNECT SOLUTIONS

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