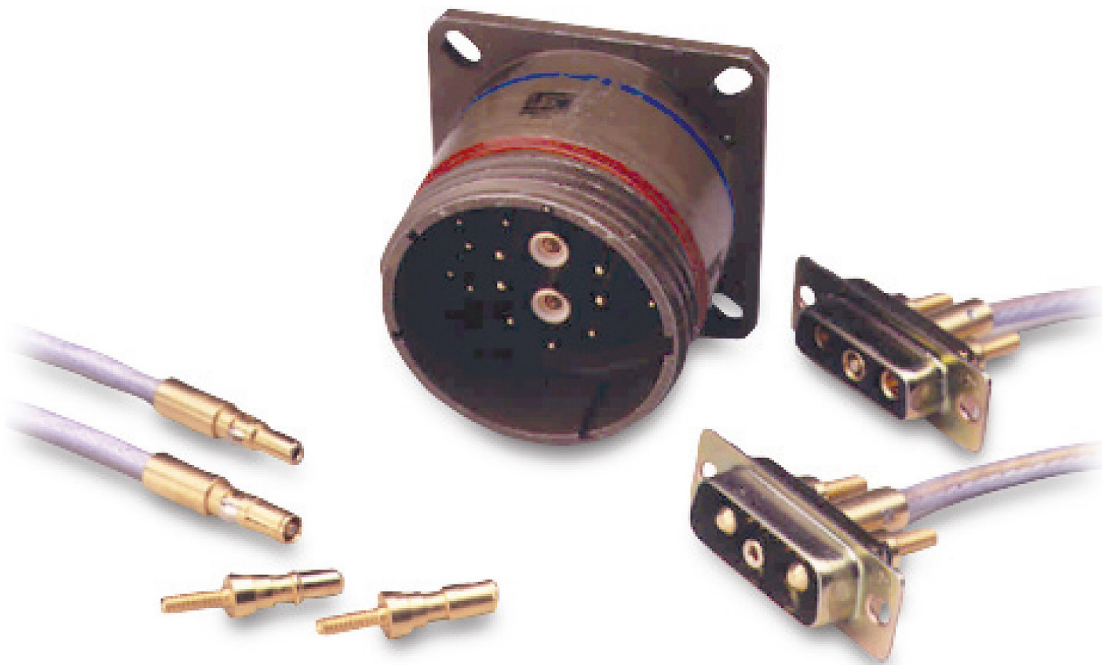
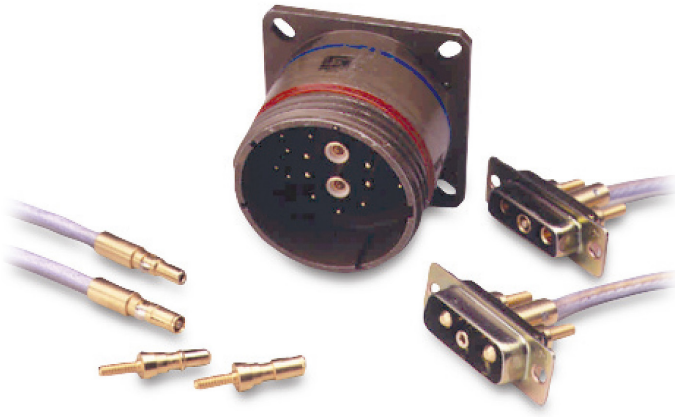


Triaxial Contacts



Triaxial Contacts



Smiths Interconnect's concentric twinax/triax contacts provide flexibility in the design of high speed data systems. The contacts, including the unique sizes 10 and 12, have the same outline dimensions as traditional coax and power contacts and fit various insert arrangements for D-sub, circular, and rack and panel connectors. The triaxial cable type connectors and contacts are designed for low-loss concentric 50, 75 and 95 Ohm cable types.

An innovative design of triax/twinax contacts opens a whole new world of design options. These small, rugged contacts fit standard connector contact cavities for MIL-DTL-38999, MIL-DTL-83527, ARINC, and D-sub connector types.

Smiths Interconnect also manufactures a complete line of standalone triax connectors including the ultra-miniature NDL connector series as well as other specific application configurations.

Features

Fits standard MIL-DTL-38999 size 8, 10 & 12 contact cavities, MIL-DTL-83527 size 8, D-sub size 8, and ARINC size 1, 5, 8, 9 & 12 standard rack & panel connector cavities.

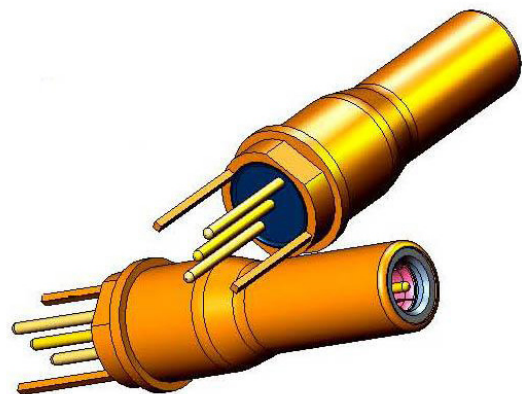
Designed for MIL-C-17/176 Data Bus networks and high speed Ethernet and Fibre Channel system

Suitable for high speed video applications, 50, 75 & 95 Ohm impedances

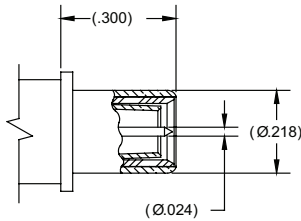
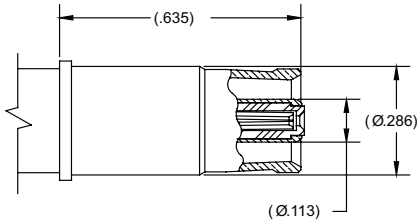
Upgrade coax harnesses to triax capability

Small size for high density packaging

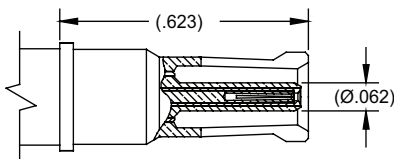
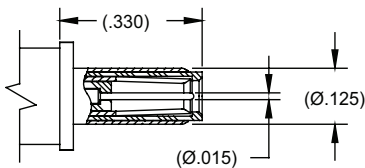
Includes high speed Fibre Channel hot-link product line series



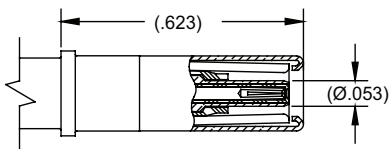
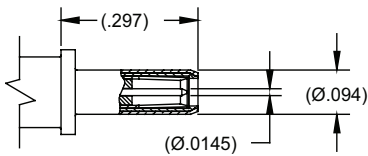
Interface Dimensions



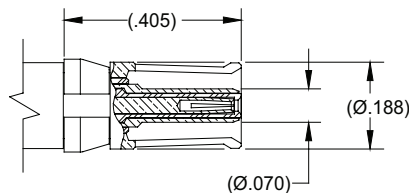
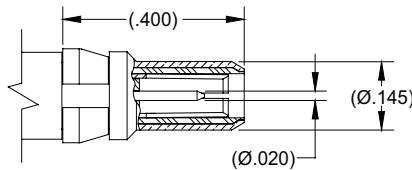
SIZE 8, MIL-C-39029/90 & /91



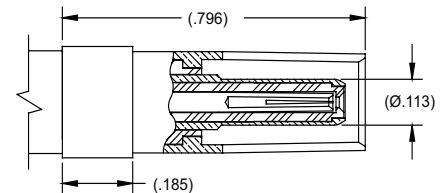
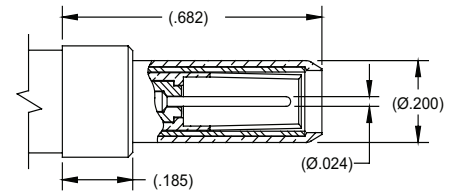
SIZE 10, MIL-DTL-38999



SIZE 12, MIL-DTL-38999



SIZE 8, MIL-PRF-24308



SIZE 9, MIL-C-81659 (ARINC 404)

Mechanical & Environmental Specifications

Temperature Rating	-65°C to + 165°C
Corrosion	MIL-STD-202 Method 101, Test Condition B
Shock	MIL-STD-202 Method 213, Test Condition B
Vibration	MIL-STD-202 Method 204, Test Condition B
Thermal Shock	MIL-STD-202 Method 107, Test Condition B
Durability	1000 Mate/Unmate cycles min.

Electrical Specifications

Dielectric Withstanding Voltage	Center contact to intermediate contact: 1000 Vrms min. Size 12: 500 Vrms min. Intermediate contact to outer contact: 400 Vrms min. Size 12: 200 Vrms min
Insulation Resistance	5000 MOhms min. @ 200 VDC
Contact Current Rating	3 Amps DC max.: Size 12: 1.5 Amps DC max.
Voltage Rating	500 Vrms @ sea level: Size 12: 200 Vrms @ sea level

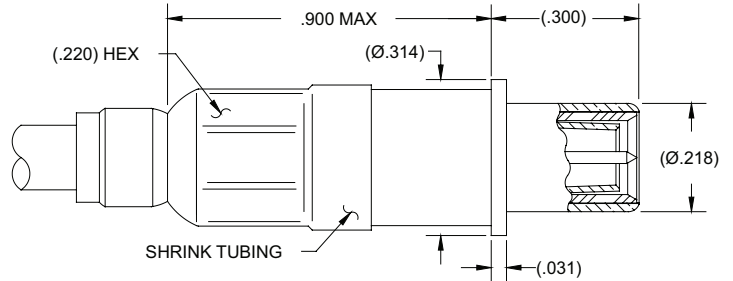
Materials and Finishes

Shell & Center/ Intermediate Contacts	Brass per ASTM-B16, Alloy UNS C36000 or BeCu per ASTM-B196, Alloy UNS C17200, C17300 or Leaded Nickel Copper, Alloy UNS C19500, C19600 Gold plate per MIL-DTL-45204, Type II, Class 1
Insulators	PTFE per ASTM-D 1710 or equivalent
Hood	305 CRES per ASTM-A240, passivated per ASTM-A967

All specifications subject to change without notice.

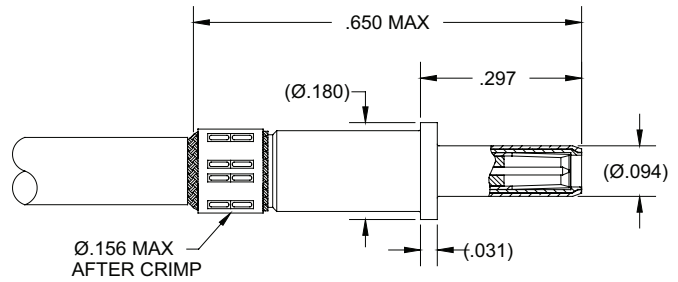
Size 8 MIL-C-39029/90 Twinax/Triax Pin Contact

Part Number	Cable Type	Cable
019612-2001	Flexible Twinax	M17/176-00002
019612-2002	Flexible Twinax	540-1086-000
019612-2003	Flexible Triax	RG-403
019612-2004	Flexible Triax	540-1050-000
019612-2031	Flexible Triax	540-1081-000



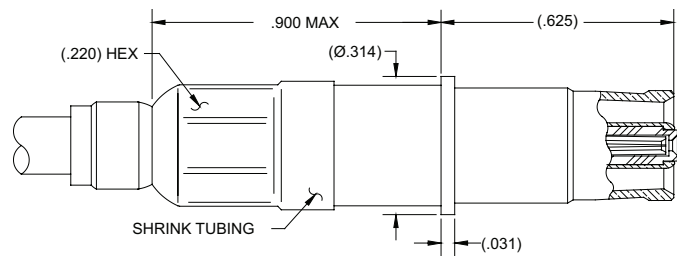
Size 12 MIL-DTL-38999 Twinax/Triax Pin Contact

Part Number	Cable Type	Cable
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018612-2002	Flexible Twinax	540-1086-000
018612-2003	Flexible Triax	RG-403
018612-2004	Flexible Triax	540-1050-000
018612-2041	Flexible Triax	540-1081-000



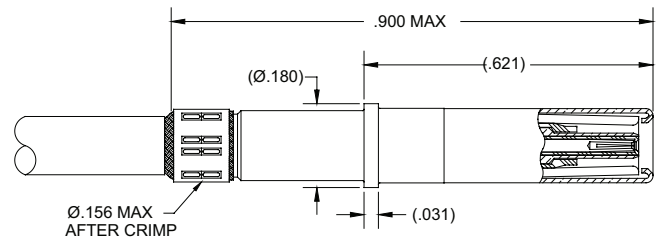
Size 8 MIL-C-39029/91 Twinax/Triax Socket Contact

Part Number	Cable Type	Cable
019512-2001	Flexible Twinax	M17/176-00002
019512-2002	Flexible Twinax	540-1086-000
019512-2003	Flexible Triax	RG-403
019512-2004	Flexible Triax	540-1050-000
019512-2031	Flexible Triax	540-1081-000



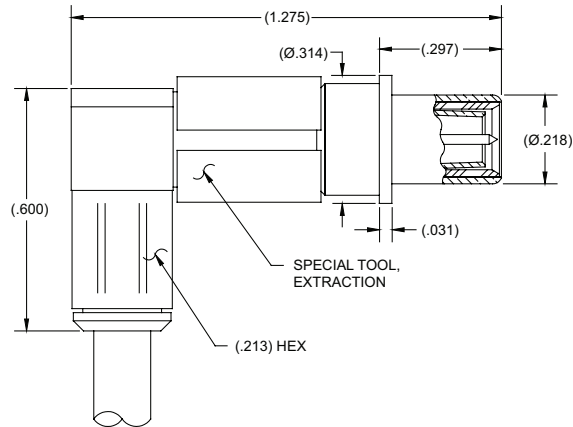
Size 12 MIL-DTL-38999 Twinax/Triax Socket Contact

Part Number	Cable Type	Cable
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018712-2002	Flexible Twinax	540-1086-000
018712-2003	Flexible Triax	RG-403
018712-2004	Flexible Triax	540-1050-000
018712-2041	Flexible Triax	540-1081-000



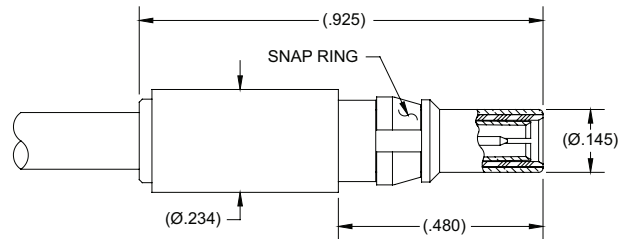
Size 8 MIL-C-39029/90 Twinax/Triax Right Angle Pin Contact

Part Number	Cable Type	Cable
019612-1010	Flexible Twinax	M17/176-00002
019612-1011	Flexible Twinax	540-1086-000
019612-1012	Flexible Triax	RG-403
019612-1013	Flexible Triax	540-1050-000
019612-1016	Flexible Triax	540-1081-000



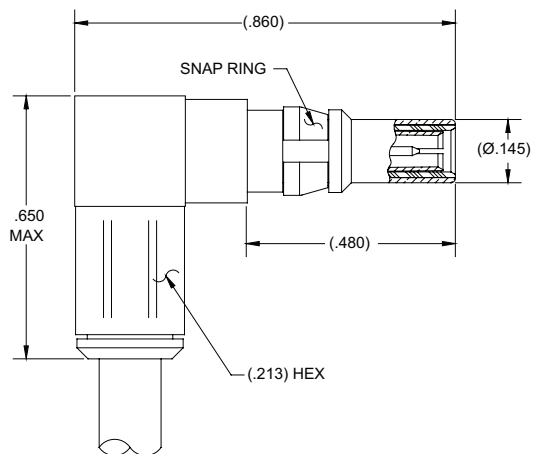
Size 8 MIL-PRF-24308 Twinax/Triax Pin Contact

Part Number	Cable Type	Cable
019812-2001	Flexible Twinax	M17/176-00002
019812-2002	Flexible Twinax	540-1086-000
019812-2003	Flexible Triax	RG-403
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019812-2031	Flexible Triax	540-1081-000



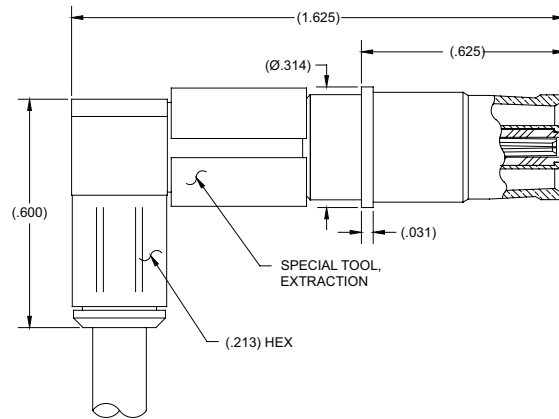
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Part Number	Cable Type	Cable
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019812-1016	Flexible Triax	540-1081-000



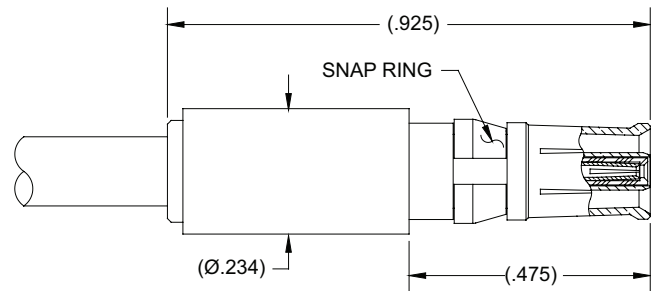
Size 8 MIL-C-39029/91 Twinax/Triax Right Angle Socket Contact

Part Number	Cable Type	Cable
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019512-1016	Flexible Triax	540-1081-000



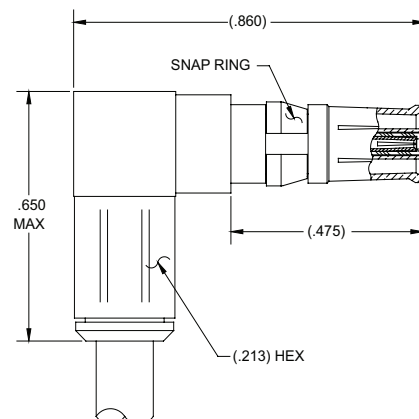
Size 8 MIL-PRF-24308 Twinax/Triax Socket Contact

Part Number	Cable Type	Cable
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019712-2003	Flexible Triax	RG-403
019712-2004	Flexible Triax	540-1050-000
019712-2031	Flexible Triax	540-1081-000



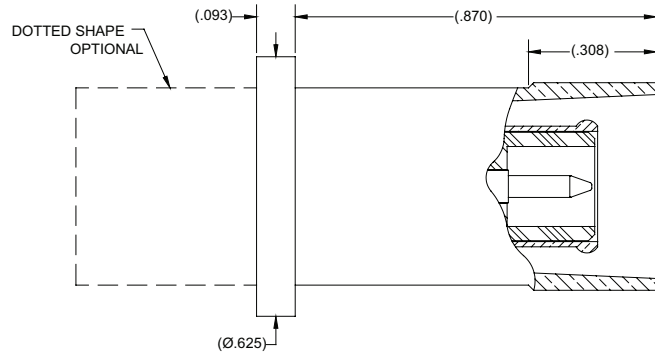
Size 8 MIL-PRF-24308 Twinax/Triax Right Angle Socket Contact

Part Number	Cable Type	Cable
019712-1010	Flexible Twinax	M17/176-00002
019712-1011	Flexible Twinax	540-1086-000
019712-1012	Flexible Triax	RG-403
019712-1013	Flexible Triax	540-1050-000
019712-1016	Flexible Triax	540-1081-000



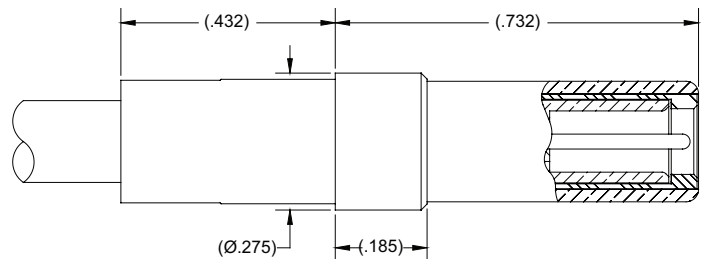
Size 1 ARINC 600 Twinax/Triax Pin Contact

Part Number	Cable Type	Cable
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018012-2111	Flexible Twinax	540-1086-000
018012-2112	Flexible Triax	RG-403
018012-2113	Flexible Triax	540-1050-000
018012-2114	Flexible Triax	540-1081-000



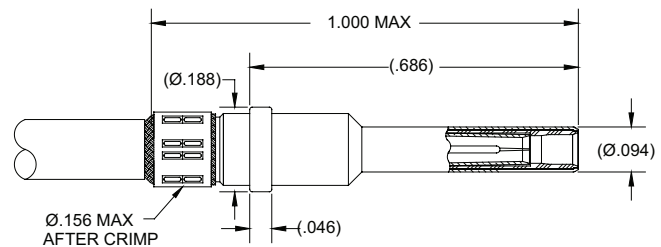
Size 5 ARINC 600 Twinax/Triax Pin Contact

Part Number	Cable Type	Cable
019412-2110	Flexible Twinax	M17/176-00002
019412-2111	Flexible Twinax	540-1086-000
019412-2112	Flexible Triax	RG-403
019412-2113	Flexible Triax	540-1050-000
019412-2116	Flexible Triax	540-1081-000



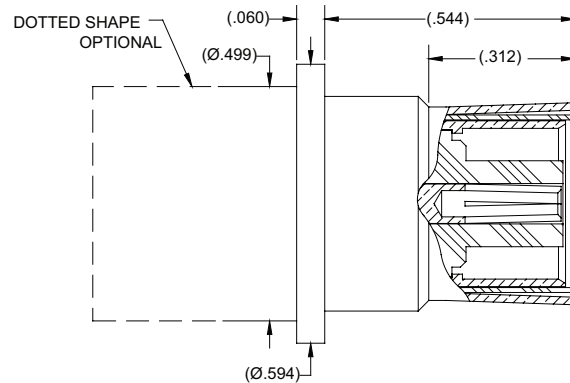
Size 12 ARINC 600 Twinax/Triax Pin Contact

Part Number	Cable Type	Cable
018612-2110	Flexible Twinax	M17/176-00002



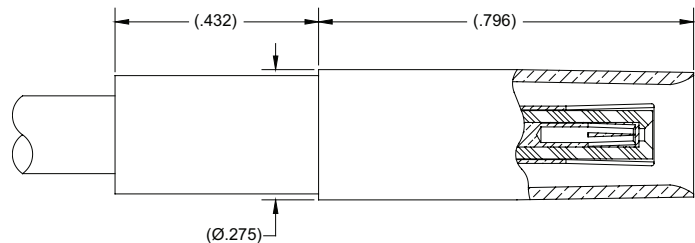
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Part Number	Cable Type	Cable
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018112-2111	Flexible Twinax	540-1086-000
018112-2112	Flexible Triax	RG-403
018112-2113	Flexible Triax	540-1050-000
018112-2114	Flexible Triax	540-1081-000



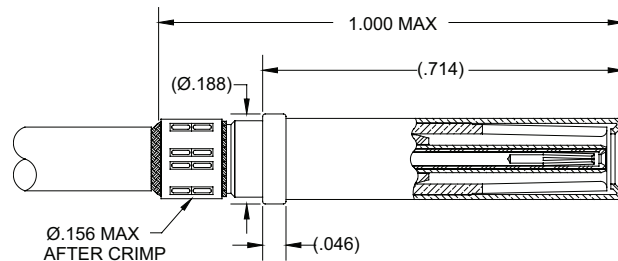
Size 5 ARINC 600 Twinax/Triax Socket Contact

Part Number	Cable Type	Cable
019312-2110	Flexible Twinax	M17/176-00002
019312-2111	Flexible Twinax	540-1086-000
019312-2112	Flexible Triax	RG-403
019312-2113	Flexible Triax	540-1050-000
019312-2116	Flexible Triax	540-1081-000



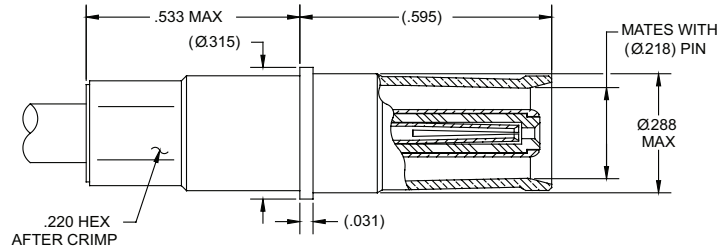
Size 12 ARINC 600 Twinax/Triax Socket Contact

Part Number	Cable Type	Cable
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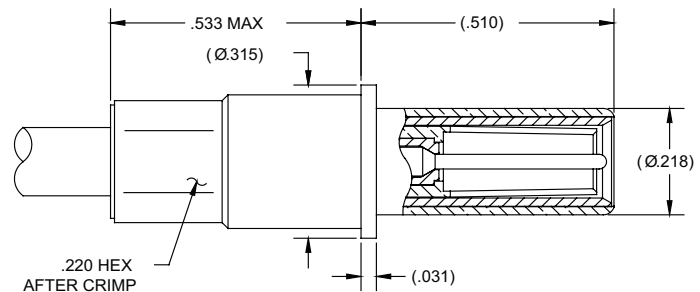
Size 8 MIL-DTL-83527 Twinax/Triax Socket Contact

Part Number	Cable Type	Cable
019512-2123	Flexible Twinax	M17/176-00002
019512-2124	Flexible Twinax	540-1161-000
019512-2125	Flexible Twinax	540-1086-000



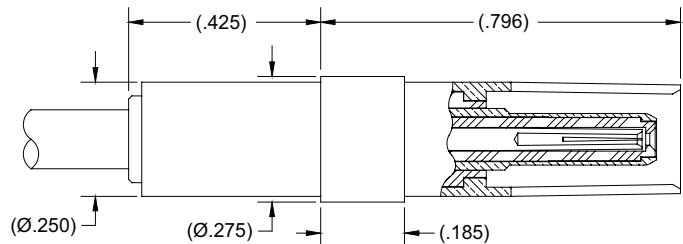
Size 8 MIL-DTL-83527 Twinax/Triax Pin Contact

Part Number	Cable Type	Cable
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019612-2126	Flexible Twinax	540-1161-000
019612-2127	Flexible Twinax	540-1086-000



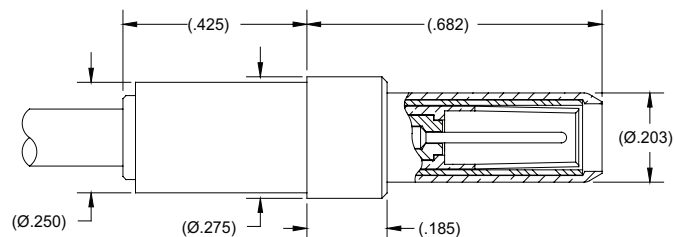
Size 9 ARINC 404 Twinax/Triax Socket Contact

Part Number	Cable Type	Cable
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019112-2002	Flexible Twinax	540-1086-000
019112-2003	Flexible Triax	RG-403
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019112-2031	Flexible Triax	540-1081-000



Size 9 ARINC 404 Twinax/Triax Pin Contact

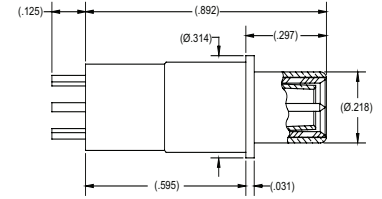
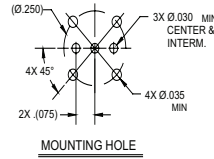
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019212-2002	Flexible Twinax	540-1086-000
019212-2003	Flexible Triax	RG-403
019212-2004	Flexible Triax	540-1050-000
019212-2031	Flexible Triax	540-1081-000



Size 8 MIL-C-39029/90 PC Tail Twinax/Triax Pin Contact

Part Number

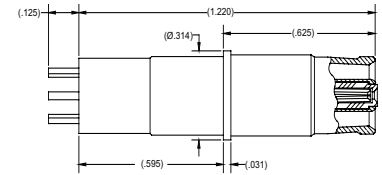
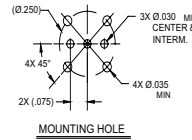
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Size 8 MIL-C-39029/91 PC Tail Twinax/Triax Socket Contact

Part Number

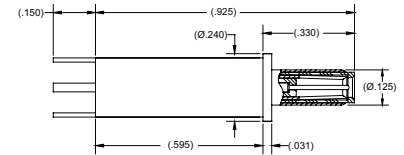
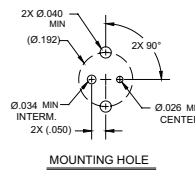
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Size 10 MIL-DTL-38999 PC Tail Twinax/Triax Pin Contact

Part Number

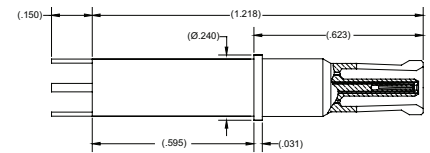
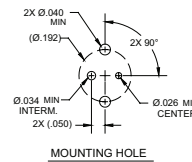
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Size 10 MIL-DTL-38999 PC Tail Twinax/Triax Socket Contact

Part Number

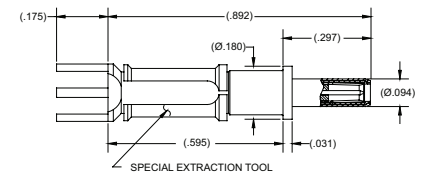
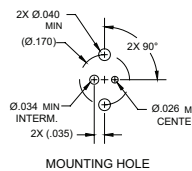
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Size 12 MIL-DTL-38999 PC Tail Twinax/Triax Pin Contact

Part Number

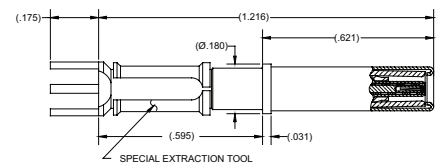
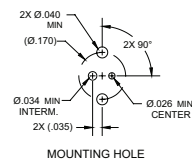
018617-2100



Size 12 MIL-DTL-38999 PC Tail Twinax/Triax Socket Contact

Part Number

018717-2100



Note: Smiths Interconnect's Twinax/Triax PC Tail Contacts are only available installed into an applicable Smiths Interconnect connector. These items are not sold separately.

How To Order



1 Connector #1

2 Cable Group #	Flexible Twinax	Flexible Triax
	1 = M17/176-00002 2 = 540-1086-000 3 = 540-1161-000	2 1 = RG-403 2 2 = 540-1050-000 2 3 = 540-1081-000
3 Connector #2	OL for Open Lead	

4 Cable Length in Inches (XXX)



Flexible Twinax Cables					
Cable Group	Cable Designation	Manufacturer	Impedance (Ohms)	Jacket	Conductor (DIA)
1	M17/176-00002	Mil-Spec	77	0.129"	0.024"
2	540-1086-000	Smiths Interconnect	98	0.143"	0.019"
3	540-1161-000	Smiths Interconnect	100	0.130"	0.024"



Flexible Triax Cables					
Cable Group	Cable Designation	Manufacturer	Impedance (Ohms)	Jacket	Conductor (DIA)
21	RG-403	Mil-Spec	50	0.116"	0.012"
22	540-1050-000	Smiths Interconnect	75	0.125"	0.012"
23	540-1081-000	Smiths Interconnect	95	0.125"	0.008"

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