



High Differential Impedance Triax Contacts

Connector Specifications

Sabritec's high differential impedance triax contacts are designed for ARINC 600 and MIL-DTL-38999 connectors. These contacts are available in 60, 75 and 85 ohm differential pair characteristic impedance for ARINC 600 and 60 ohm differential pair characteristic impedance for MIL-DTL-38999 connectors.

Size 8 concentric twinax/triax contacts have the same outline dimensions as standard coax and power contacts for both MIL-DTL-38999 and ARINC 600 connectors with 60 ohm differential pair impedance. For high data rate applications such as 1000 Base Tx, Sabritec offers a special ARINC 600 size 8 triax pin and socket contact that is designed to fit into a special insulator cavity for ARINC 600.

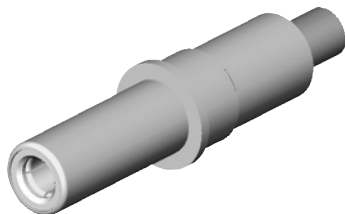
These special high differential pair impedance contacts are also available in 75 ohm and 85 ohm impedance values.

High differential pair impedance contacts have special interfaces that are radically optimized for a balanced characteristic impedance to the outer shell while providing maximum differential impedance between middle and center conductors. Polarization is not required since the triax interface has concentric conductors. This also allows free rotation of cable entry for multi-directional routing of cable.

High speed Ethernet data signals can be routed through triaxial interface interconnects, thus eliminating the need for anti-rotational quad and twinax connector and contact types. Triaxial contacts are ideal for blindmate rack and panel and circular interconnect requirements.

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.
Mating/Unmating Force	1 lb. min.
Float Mount Constraints	0.15" full radial & axial misalignment max.
Electrical Specifications	
Dielectric Withstanding Voltage	500 Vrms @ sea level with 70% relative humidity
Insulation Resistance	5000 Mega-Ohms min. @ 200 VDC
Contact Current Rating	1.5 Amps D.C. max.
Characteristic Impedance	60 Ohms, 75 Ohms or 85 Ohms
Material & 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-D1710 or equivalent
Hood	305 CRES per ASM-A240, passivated per ASTM-A967

All specifications subject to change without notice.



#8 Triaxial Socket Contact



#8 Triaxial Pin Contact

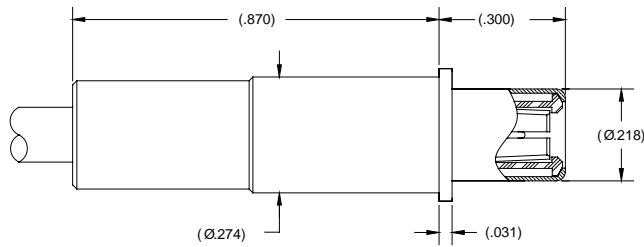
Sabritec provides specialty, enhanced performance connectors and cable assemblies and as such does not currently offer circular, rack and panel, or D-subminiature connectors that are listed on military standard Qualified Products Lists (QPL) per applicable detail specification sheets. Sabritec's connectors are fully intermateable with applicable QPL products and meet the applicable requirements of all military standards listed in this catalog.



High Differential Impedance Triax Contacts

MIL-DTL-38999/ARINC 600 Contacts

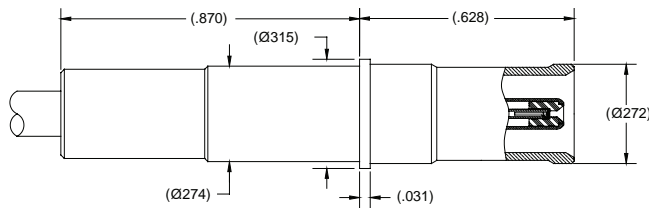
Size 8 MIL-DTL-38999 Twinax/Triax Pin Contact 60 Ohms



Part Number	Cable Type	Cable
019612-2115	Flexible Twinax	540-1161-000
019612-2116	Flexible Twinax	540-1086-000

Intermountable In Standard Size 8 MIL-DTL-38999 Cavities

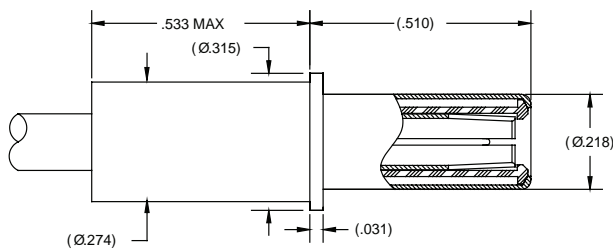
Size 8 MIL-DTL-38999 Twinax/Triax Socket Contact 60 Ohm



Part Number	Cable Type	Cable
019512-2115	Flexible Twinax	540-1161-000
019512-2116	Flexible Twinax	540-1086-000

Intermountable In Standard Size 8 MIL-DTL-38999 Cavities

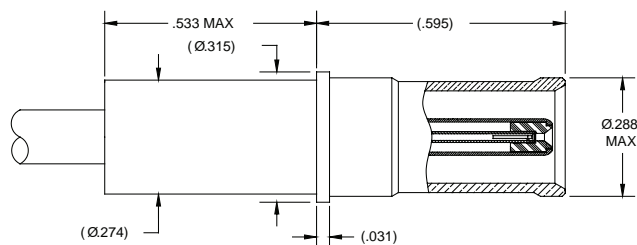
Size 8 ARINC 600 Twinax/Triax Pin Contact 60 Ohms



Part Number	Cable Type	Cable
019612-2119	Flexible Twinax	540-1161-000
019612-2120	Flexible Twinax	540-1086-000

Intermountable In Standard Size 8 ARINC 600 Cavities

Size 8 ARINC 600 Twinax/Triax Socket Contact 60 Ohms

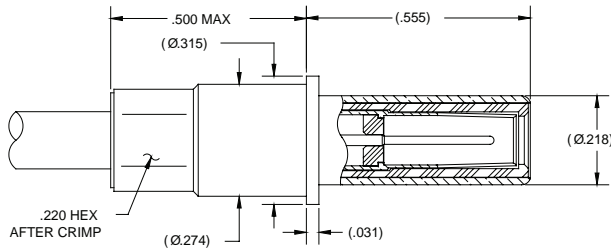


Part Number	Cable Type	Cable
019512-2119	Flexible Twinax	540-1161-000
019512-2120	Flexible Twinax	540-1086-000

Intermountable In Standard Size 8 ARINC 600 Cavities

ARINC 600 Contacts

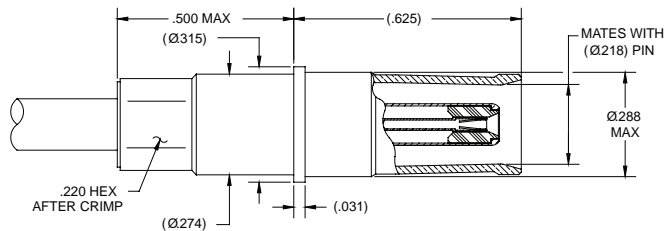
Size 8 ARINC 600 Twinax/Triax Pin Contact 75 Ohms



Part Number	Cable Type	Cable
019612-2117	Flexible Twinax	540-1050-000

Intermountable In Standard Size 8 ARINC 600 Cavities

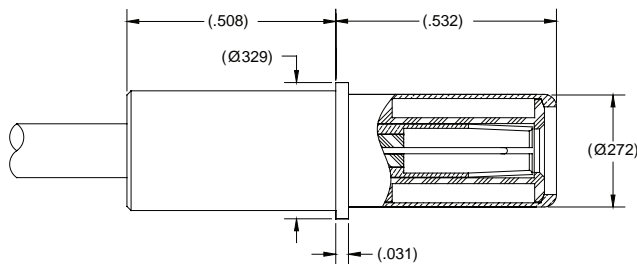
Size 8 ARINC 600 Twinax/Triax Socket Contact 75 Ohms



Part Number	Cable Type	Cable
019512-2117	Flexible Twinax	540-1050-000

Intermountable In Standard Size 8 ARINC 600 Cavities

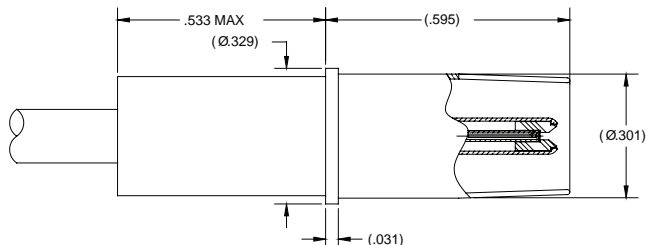
Size 8 ARINC 600 Twinax/Triax Pin Contact Special 85 Ohms



Part Number	Cable Type	Cable
019612-2121	Flexible Twinax	540-1161-000

Contacts Fit Into Special Size 8 ARINC 600 Cavities

Size 8 ARINC 600 Twinax/Triax Socket Contact Special 85 Ohms



Part Number	Cable Type	Cable
019512-2121	Flexible Twinax	540-1161-000

Intermountable In Standard Size 8 ARINC 600 Cavities