

General Description

Delta 7/16 series connectors are medium size, 50 Ω impedance connectors with M29 x 1.5 metric threaded coupling. These rugged connectors conform to DIN 47223, and feature good power-handling capability along with VSWR as low as 1.07:1 @ 2 GHz. Because these connectors are designed to minimize signal distortion from intermodulation, silver plating is standard. The optional Albaloy plating provides greatly increased tarnish resistance while preserving the connectors' low intermodulation characteristics; optional nickel plating should only be specified when low intermodulation is not a concern in your system design.

As with our other connector series, Delta's customer-driven design results in 7/16 series connectors with practical and unique features that make your design and assembly process easier. Some of these include:

- VersaCom combination cable connectors (page 170) let you stock various body and cable attachment subassemblies, and assemble them into straight or right angle connectors as needed.
- PressMount receptacles (pages 171 and 172) mount securely in a single round hole, saving space on your components and reducing your housing fabrication costs.
- Panel receptacles with flange sizes to match the same hole pattern as standard type N connectors, letting you drill one hole pattern and mount BNC, N, SMA, TNC, or 7/16 series connectors as needed.
- All Delta 7/16 series plugs feature a coupling nut with a knurled surface for secure grip when hand-tightening, and a hex for tightening with a wrench. All can be supplied with full-length hex coupling nuts as well.

Our 7/16 series product line is still growing, so please call if you don't see what you need.

7/16 Configurations

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7/16 Specifications*

Electrical:

Nominal Impedance: 50 ohms.
 Frequency Range: DC–7.5 GHz.
 Voltage Rating: 2,700 volts RMS.
 Dielectric Withstanding Voltage: 4,000 VRMS.
 Insulation Resistance: 10,000 megohms.

Materials/Finishes:

Insulators: Teflon per ASTM D1710.
 Male Contacts: Brass per ASTM B16.
 Female Contacts: Spring Brass per ASTM B16,
 or phosphor bronze per ASTM B139

Contact Plating: Silver per ASTM B700,
 or Gold per MIL-DTL-45204.

Gaskets: Silicone rubber per ZZ-R-765,
 Class II, Grade 50.

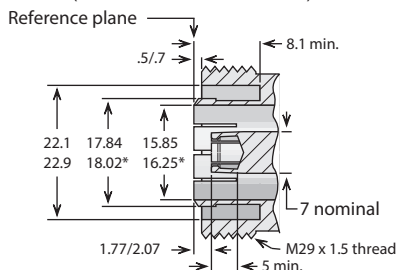
Other Metal Parts: Brass per ASTM B16,
 plated Silver per
 ASTM B700.

All other specifications are in accordance with the latest issues of DIN 47223 or other applicable IEC, VG, or CECC specifications.

*These specifications are typical and may not apply to all connectors. Detailed specifications for individual connectors are available on request.

Jack Interface**

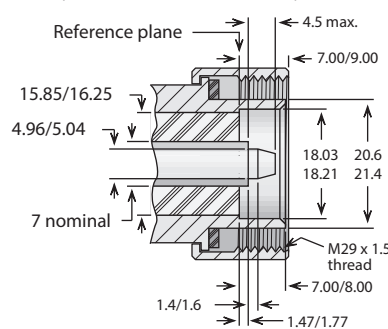
(All dimensions in millimeters.)



* Dimensions before slotting.
 Inner and outer contacts slotted and flared to meet performance requirements.

Plug Interface**

(All dimensions in millimeters.)



**Some proportions altered to illustrate detail.