

Specifications for Twinax

TWINAX series connectors are weatherproof, physically robust, having twin contacts and a threaded coupling mechanism. TWINAX connectors have an independent key and key-way to ensure the correct contact alignment before mating. They have a nominal impedance of 100 ohms and are matched to twinaxial data transmission cables. These connectors are available in standard V-groove compression clamp style which allow a metal to metal contact of the shield resulting in greater strength and superior electrical performance. Crimp versions are available as well. Because of the superior shielding characteristics of the TWINAX connectors and matching cables, they are particularly suitable for use in balanced low level and high sensitivity circuits as in data transmission applications especially on the older IBM 34, 36, 38 and the AS400 systems, as well as current TWINAX applications.

MATERIALS

Connector Parts	Material
Connector Body and Parts	Brass
Male Contact Pin	Brass
Outer Contact	Brass
Socket Contact	Phosphor Bronze
Crimp Ferrule (Where Uses)	Annealed Copper
Insulator Material	Rexolite
Rubber Gaskets	Silicone Rubber
Plating	Nickel

ELECTRICAL

Requirement	Performance
Impedance	1 00 W
Frequency Range	0-500 MHz
VSWR	1.30 Max.
Test Voltage (At Sea Level)	500V rms
Working Voltage (At Sea Level)	500V rms
Insulation Resistance	5 000 Meg. Min.
Contact Resistance	2 Milliohm Max.

MECHANICAL & ENVIRONMENTAL

Requirement	Performance
Durability	500 Insertions & Extractions Min.
Shock	50 G
Vibration	20 G from 80-2000 Hz
Cable Retention (Cable Types)	75 lbs. Minimum (RG108/U)
Coupling Nut	75 lbs. Minimum
Temperature Range	Noryl: -40 to +85 C

FOR TECHNICAL SUPPORT: PHONE 973-347-4040 / FAX 973-347-2111

[Back to Index](#)

14

- Page 15 -

Twinax Connectors

Plugs and Jacks

Standard Twinax plugs are IBM style compression, or clamp method attachable. The pins, which are one gold and one silver for external identification, are designed for crimping but also contain a vent hole to facilitate soldering as well. The crimp version design has the crimp mechanism internal to the connector. Once assembled it has the appearance of the standard compression type.

Part Number	RoHS	Description	Fig. No.
210A104R	<input checked="" type="checkbox"/>	Male Compression Type (Crimp/Solder Pins)	75
210A906R	<input checked="" type="checkbox"/>	Male Internal Crimp Type (Crimp Solder Pins)	74
220A106R	<input checked="" type="checkbox"/>	Female Compression Type, Crimp/Solder Pins)	76
226A016	<input checked="" type="checkbox"/>	Female Bulkhead Front Mount Solder Jack	77
<input checked="" type="checkbox"/> RoHS compliant REQUEST QUOTE REQUEST DRAWING			

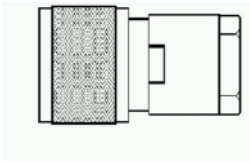


Fig. 75

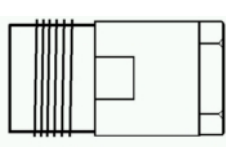


Fig. 76

Adapters & Terminators

Standard Twinax adapters are used for joining, splicing, and tapping various cable applications. These adapters are sturdy machined brass with attractive nickel plating. All contacts are gold plated for reliable mating.

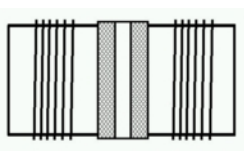


Fig. 78

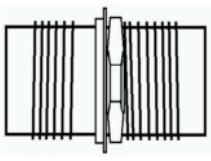


Fig. 79

Part Number	RoHS	Description	Fig. No.
232A006	<input checked="" type="checkbox"/>	Female/Female Inline Splice	78
235A022	<input checked="" type="checkbox"/>	Female/Female Bulkhead	79
243A006	<input checked="" type="checkbox"/>	Female/Male/Female "T" Adapter	80
245A006	<input checked="" type="checkbox"/>	Female/Female/Female "T" Adapter	81
272A006	<input checked="" type="checkbox"/>	100 W Male Terminator	82

☒ RoHS compliant [REQUEST QUOTE](#) [REQUEST DRAWING](#)

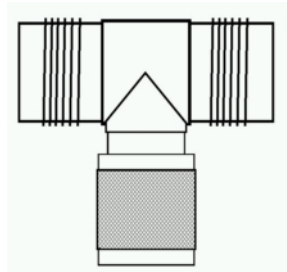


Fig. 80

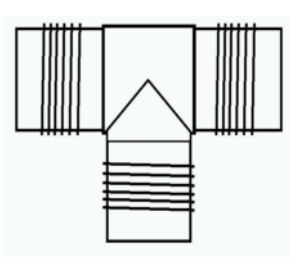


Fig. 81

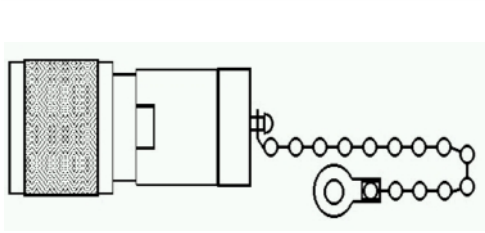


Fig. 82

FOR TECHNICAL SUPPORT: PHONE 973-347-4040 / FAX 973-347-2111

[Back to Index](#)

15

- Page 16 -