

CONNECTOR SPECIFICATION

Connector Specification

Connectors are designed to provide optimum cable assembly performance when properly attached to our cables. The catalogue lists the most common configurations for each cable type. If needed RhoPhase can modify existing designs or design a completely new connector to meet your specific requirements.

Our standard connectors meet the environmental specifications of MIL-PRF-39012, and most operate to at least 18 GHz. Specific connector component material and plating specifications are listed below. Connector mating faces conform to MIL-STD-348.

Components:

Bodies	Passivated 303 Stainless Steel
Coupling Nut	Passivated 303 Stainless Steel
Contacts	Gold Plated (Type II, Class 1) Beryllium Copper
Solder Ferrule	Gold Plated (Type II, Class 1) Brass
Insulator	PTFE (Polytetrafluoroethylene)
Dielectric Beads	ULTEM* (Grade 1000) (used only on connectors for larger cables)
Gasket	Silicone Rubber

Material Specifications:

Stainless Steel	Per QQ-S-763
Beryllium Copper	Per QQ-C-530
Brass	Per QQ-B-626
PTFE	Per MIL-P-19468
ULTEM 1000*	G.E. Material
Silicone Rubber	Per Z-R-765

Finish Specifications:

Passivate	Per QQ-P-35B
Gold	Per MIL-G-45204

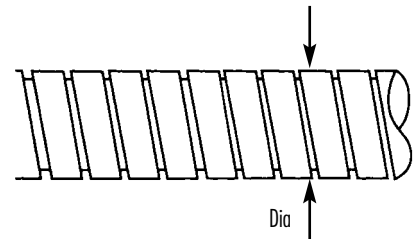
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Connector Type	Frequency (GHz)
N	18
TNC	18
SMA	22
3.5mm	34
2.9mm	40
2.4mm	50
1.85mm	60
SC	11
HN	4
BNC	4

Optional Protection

In addition to the internally ruggedised cables, RhoPhase offers several other options to protect the cables from damage when exposed to various environmental conditions. A stainless steel armour is recommended for applications where crushing of up to 72 kg/cm can occur.

RhoPhase can provide a wide range of other materials/processes to optimise mechanical and electrical performance and environmental characteristics.



Dia	Weight	Bend radius	Used for cables
.34	76kg/100m	25.4mm	1404, 1501, 1601, 1801, 2301
.50	152kg/100m	44.5mm	2801

Crush resistance is 72kg/cm