

480 SERIES

The 480 series cable assemblies are large diameter ultra low loss transmission lines for applications requiring the lowest loss and highest power handling capability at frequencies up to 11 GHz. These double shielded cables feature an expanded PTFE dielectric, type F-6 per MIL-C-17 and stranded centre conductor. They are available with external protection options.

Cable specifications

P/N	CABLE DIA (mm)	BEND RADIUS (mm)	WEIGHT (Kg/100Mtrs.)	CAPACITANCE (pF/Mtr.)	TIME DELAY (nS/Mtr.)	VP (%)	CUT OFF FREQ. (GHz)	RF LEAKAGE to 18 GHz
4806	12.2	76	30	79	3.94	83	11.5	>100dB
4808*	13.7	76	29	79	3.94	83	11.5	>100dB

*Internally ruggedised cable - Crush resistant to 11.3 N-m.

Temperature range: -65°C to +135°C. 200°C operation on request.

For phase vs temperature and phase vs flexing characteristics see page 30.

Cable assembly electrical specifications

VSWR

1.35:1 to 18 GHz for assemblies with two straight connectors.

1.40:1 to 18 GHz for assemblies with one straight connector and one right angle connector.

1.45:1 to 18 GHz for assemblies with two right angle connectors.

Connector insertion loss (per connector)

Connector type: N,SMA, TNC

Max frequency (GHz): 18

Straight (dB): .012xF

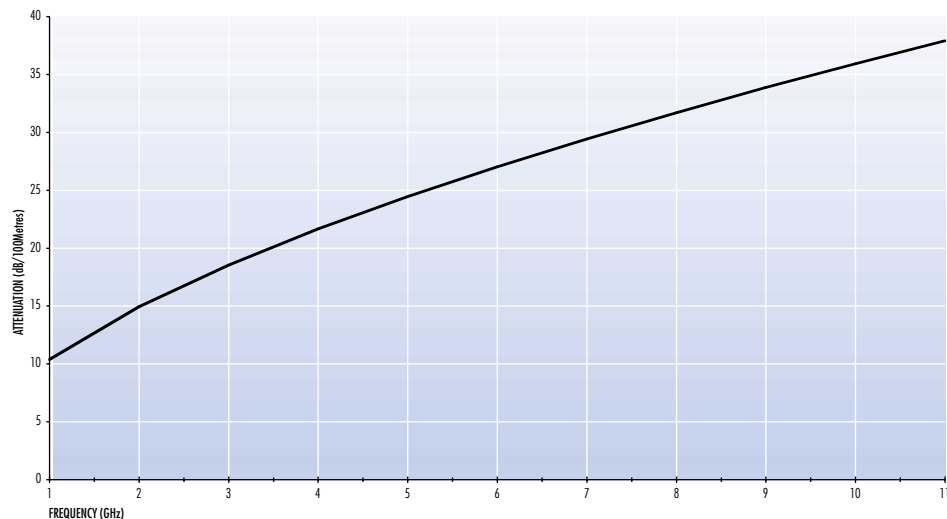
Right angle (dB): .017xF

Calculation of cable assembly loss

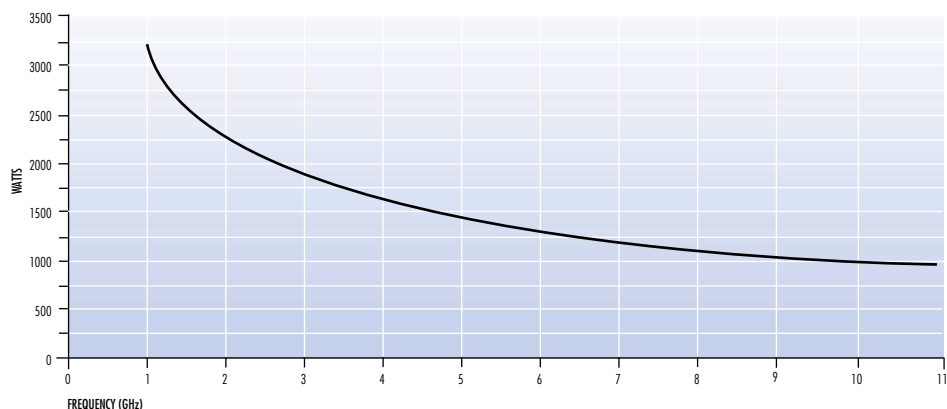
$$\text{dB} = \frac{\text{cable attenuation in dB/100Mtrs}}{100,000} \times L + \text{connector loss}$$

where L is length in millimetres

Attenuation in dB/100Mtrs 480 Series Cable



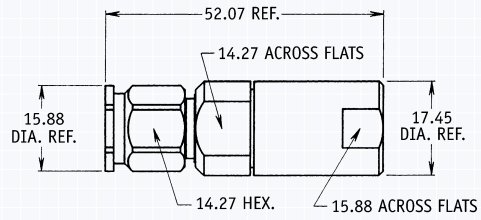
Max power at 20°C at sea level 480 Series Cable



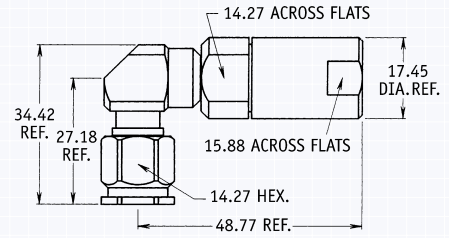
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Connectors for 4806 cable

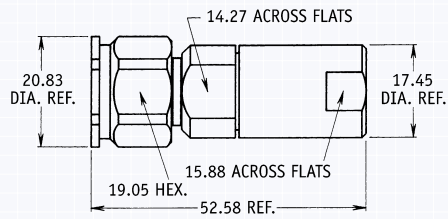
TNC STR PLUG



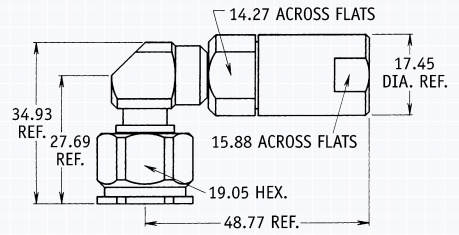
TNC 90° PLUG



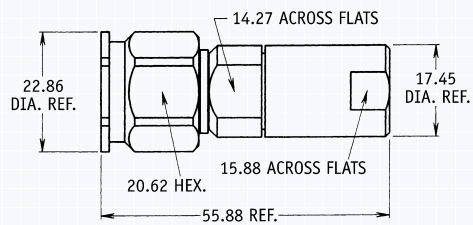
N STR PLUG



N 90° PLUG



SC STR PLUG



SC 90° PLUG

