

Ultra Low Loss Phase Stable Cable

Ultra Low Loss Phase Stable Coaxial Cable designed for high-frequency microwave transmissions operating from DC up to **26.5 GHz**. It features an advanced multi-shielded design to prevent signal interference while maintaining strict amplitude stability during movement. It is primarily used as laboratory test leads for (VNAs), high-performance aerospace radar systems, and cellular base station interconnects.



PART No: TE-RFC-ULLPS-D5.20

Cable Structure			
S No.	Layer	Material	Diameter
1.	Inner Conductor	Silver Plated Copper	1.45 mm
2.	Dielectric	LD PTFE	4.00 mm
3.	Outer Conductor(1)	Silver Plated Copper Foil	4.20 mm
4.	Outer Conductor(2)	Silver Plated Copper	4.75 mm
5.	Jacket	FEP (Grey)	5.20 mm

Physical Characteristics			
Weight (g/m)	50	Working Temp.	-55°C to +165°C
Min. Bending Radius	25.4mm (static)	Storage Temp.	-65°C to +90°C
Min. Bending Radius	51.8mm (dynamic)	Tensile Strength (kg)	N/A

Electrical Characteristics			
Impedance	50 ohms	Cut-Off Frequency	29GHz
Velocity	83%	Bending phase	±5°@26.5GHz
Shielding Effectiveness	> 90dB	Temp. phase	600PPM
V _{max}	1500V	Mech. phase	±0.15@26.5GHz

Frequency (GHz)	0.3	1.0	2.0	4.0	6.0	8.0	10	12	14	16	18	26.5
Attenuation dB/100m	13.2	24.3	34.6	49.5	61.1	71.0	79.9	87.9	95.4	102.5	109.2	134.5
Power Handling (kW)	1.61	0.87	0.61	0.43	0.35	0.30	0.27	0.24	0.22	0.21	0.19	0.16

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