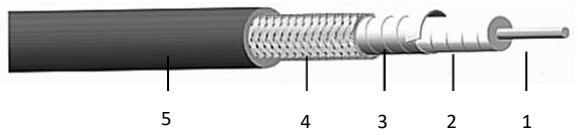
Ultra-Low Loss Phase Stable Coaxial RF Cable

Ultra Low Loss Phase Stable is a 50 Ω coaxial cable designed for reliable RF signal transmission with enhanced shielding effectiveness against interference operated upto 30GHz. It features a silver-coated copper conductor, solid polyethylene dielectric, high-coverage shielding, and a durable grey FEP jacket.



Part No: TE-RFC-ULLPS-D4.80

Cable Structure			
Layer		Material	Diameter
1	Inner Conductor	SCC	1.40 mm
2	Insulation (Dielectric)	LD PTFE	3.80 mm
3	Outer Conductor	SCC Foil	4.00 mm
4	Outer Shield	Braided SCC	4.40 mm
5	Jacket	Grey FEP	4.80 mm

Physical Characteristics				
Cable Outer Dia.	4.80 mm	0.189 inch		
Weight	52 g/m		Durability	＞5000
Bending Radius (Installation)	24 mm		Working Temp.	-55℃～+165 ℃
Bending Radius (Repeated)	48 mm		Armor Stress Tolerance	160N/25mm

Electrical Characteristics					
Impedance	50 ohms	Cut-off Frequency	30 GHz	Operating Frequency	27 GHz
Velocity of Propagation	83%	Shielding Effectiveness	＞ 90 dB	Bending Phase	± 5°@26.5GHz
VRMS	1500 V	Temp. Phase	600 PPM	Mech. Phase	10 @26.5GHz

Frequency (MHz)	Attenuation (dB/100m)	Power Handling (Avg. kW)	Frequency (MHz)	Attenuation (dB/100m)	Power Handling (W)
300	12.9	1.608	8000	68.8	0.301
1000	23.7	0.875	12000	85.0	0.244
2000	33.7	0.615	18000	105.2	0.197
4000	48.1	0.431	26500	129.3	0.160
6000	59.2	0.350	31000	140.6	0.147

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