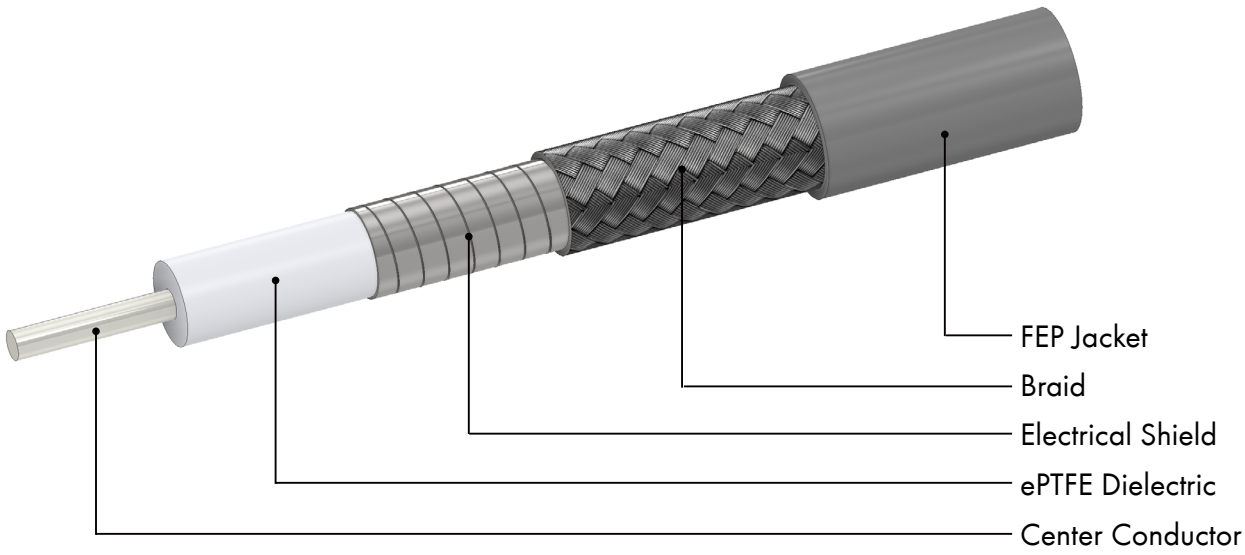
ROSNOL® RF/Microwave Interconnect

Technical Data Sheet

R-Test Multi Purpose Ultra Low Loss Coaxial Cable
DC-67 GHz Attenuation: 6.9dB/m @ 67GHz

MPUL284A1

Cable Construction



Material And Diameter

Connector parts	Material	Diameter
Center Conductor	Solid, Silver Plated Copper (SPC)	
Dielectric	ePTFE (Expanded Polytetrafluoroethylene)	
Electrical Shield	Copper, Silver plated	
Braid	Copper, Silver plated	
Jacket	FEP (Fluorinated ethylene propylene)	2.2 mm (.086 inch)

Electrical Data

Impedance	50 Ω
Frequency	DC to 67 GHz
Capacitance	81 pF/m
Velocity of signal propagation	82 %
Signal delay	4.06 ns/m
Screening effectiveness	≥ 90 dB (up to 18 GHz)
Operating Voltage Max. (Vrms @ 60 Hz)	≤ 1 kVrms (@ sea level)
Power Handling	See chart
Phase Stability vs Bending*	1°@6 GHz/ 3°@18 GHz

** according to IEC60966-1, wrapped 360° around a mandrel of 57 mm (2.25 in) radius*

Mechanical Data

Weight	24 g/m
Min. bending radius	11 mm

Environmental Data

Temperature range	-55°C to +165°C
RoHS (2011/65/EU)	compliant

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Typical Attenuation

Frequency (GHz)	Typical Attenuation (dB/m) @ 20°C sea level	Typical Attenuation (dB/ft) @ 20°C sea level	Max. CW power (Watt) @ 20°C sea level
4	1.29	3.93	132
6	1.59	5.22	107
8	1.86	6.10	92
10	2.10	6.89	82
12	2.31	7.58	74
14	2.51	8.23	68
18	3.14	10.3	40
26.5	3.70	12.1	22
40	4.98	16.3	18
50	5.73	18.8	13
65	6.40	20.1	10
67	6.90	22.64	7

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