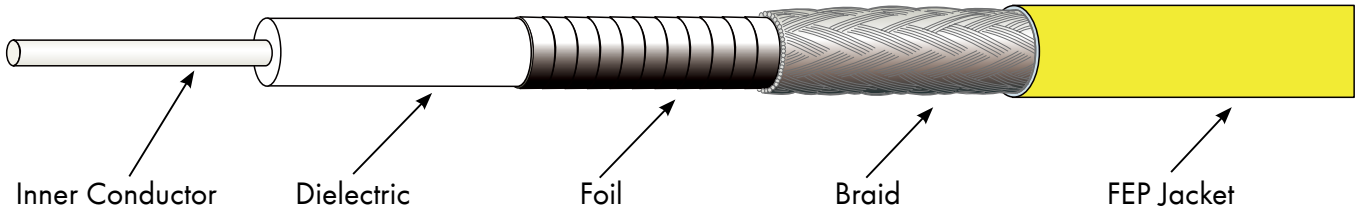
ROSNOL®
RF/Microwave Interconnect

Technical Data Sheet

R-Test UltraPhase Coaxial Cable

MPUL356A



Material And Diameter

Connector parts	Material	Diameter
Inner Conductor	Solid, Silver Plated Copper (SPC)	N/A
Dielectric	EPTFE (Expanded Polytetrafluoroethylene)	N/A
Foil	Copper, Silver plated	N/A
Braid	Copper, Silver plated	N/A
Jacket	FEP (Fluorinated ethylene propylene)	3.56 mm (.140 inch)

Electrical Data

Impedance	50 Ω
Frequency	DC to 50 GHz
Capacitance	78.7 pF/m
Velocity of signal propagation	83 %
Signal delay	4.00 ns/m
Insulation resistance	≥ 1 x 10^8 MΩ/m
Screening effectiveness	≥ 90 dB (up to 18 GHz)
Operating Voltage Max. (Vrms @ 60 Hz)	≤ 1.9 kVrms (@ sea level)
Power Handling	See chart
Phase Stability vs Bending	±6° typ/±11.8° max
Amplitude Stability vs Bending	±0.05 dB typ/±0.08 dB max

Mechanical Data

Weight	28 g/m
Min. bending radius	6.4 mm

Environmental Data

Temperature range	-65°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
1	0.39	0.12	450
2	0.55	0.17	300
4	0.80	0.24	225
6	0.99	0.30	175
8	1.16	0.35	150
10	1.32	0.40	140
12	1.46	0.44	120
14	1.59	0.48	110
16	1.72	0.52	105
18	1.83	0.56	100
20	1.95	0.59	95
22	2.06	0.63	90
24	2.16	0.66	85
26	2.27	0.69	80
28	2.37	0.72	75
30	2.46	0.75	73
32	2.56	0.78	71
34	2.65	0.81	70
36	2.74	0.84	68
38	2.83	0.86	65
40	2.92	0.89	60
42	3.01	0.92	58
44	3.09	0.94	56
46	3.18	0.97	54
48	3.26	0.99	52
50	3.34	1.02	50

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