

Low-loss, 135 Ohm, 1 GHz, 85°C, ø5 mm, PE jacket

S_03279_150

Properties

- Low loss
- Suitable for use in application up to 1 GHz
- 135 Ohm characteristic impedance



Construction			
Component	Material	Detail	Diameter
Centre conductor	Copper	Wire	0.15 mm
Dielectric	SPE (Foamed Polyethylene)		2.95 mm
Outer conductor	Copper	Braid, 95%	3.6 mm
Jacket	PE (Polyethylene)	RAL 9005 - bk	5 mm +/- 0.15 mm

Electrical data	
Impedance	135 Ω +/-15Ω
Operating frequency	≤ 1 GHz
Capacitance	30 pF/m
Velocity of signal propagation	82 %
Signal delay	4.1 ns/m
Insulation resistance	100000000 MΩ*m
Operating Voltage (at sea level)	≤ 0.25 kVrms
Test voltage (50 Hz/1 min)	≤ 0.5 kVrms

Mechanical data	
Weight	3.2 kg/m
Static bending radius	25 mm
Dynamic bending radius	50 mm

Environmental data	
Operation temperature	-40 °C ... 85 °C
Installation temperature	-20 °C ... 60 °C
Fire characteristics	free of halogenes, acc. standard IEC 60754

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Suitable connectors	
Cable group	U99

Ordering information		
Item number	Item description	Available as assembly only
22511485	S_03279_150	No

Power Matrix			
Calculation: typical Attenuation [formula: $(a \cdot f^{0.5} + b \cdot f)$] and maximum Power CW [formula: $(p/f^{0.5})$]			
a coefficient typical =	0.5488	b coefficient typical =	0.3828
fmax =	1.0	P at 1 GHz =	25.0
Frequency GHz	Nom. attenuation (dB/m)	Nom. attenuation (dB/ft)	CW power (W)
	sea level 25°C ambient temperature	sea level 25°C ambient temperature	sea level 40°C ambient temperature
0.10	0.212	0.065	79
0.15	0.270	0.082	65
0.20	0.322	0.098	56
0.25	0.370	0.113	50
0.30	0.415	0.126	46
0.35	0.459	0.140	42
0.40	0.500	0.152	40
0.45	0.540	0.165	37
0.50	0.579	0.176	35
0.55	0.618	0.188	34
0.60	0.655	0.200	32
0.65	0.691	0.211	31
0.70	0.727	0.222	30
0.75	0.762	0.232	29
0.80	0.797	0.243	28
0.85	0.831	0.253	27
0.90	0.865	0.264	26
0.95	0.899	0.274	26
1.00	0.932	0.284	25

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