

Low-loss, 50 Ohm, 6 GHz, 85°C, ø7.9 mm, LSFH jacket

S_06162_D-03

Properties

- Alternative to standard SPUMA cables
- Low loss
- Low smoke
- Flame retardant



Construction			
Component	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire, 90%	2.05 mm - 0.1 mm
Dielectric	SPE (Foamed Polyethylene)	95%	5.6 mm
Outer conductor	Copper	Braid	6.1 mm
Outer conductor	Copper	Braid	6.75 mm
Jacket	LSFH (modified polyethylene)	RAL 9005 - bk	7.9 mm +/- 0.1 mm

Electrical data	
Impedance	50 Ω +/-1.5Ω
Operating frequency	≤ 6 GHz
Capacitance	82 pF/m
Velocity of signal propagation	82 %
Signal delay	4.08 ns/m
Screening effectiveness	82 dB at frequency 0.001 GHz ... 6GHz
Insulation resistance	100000000 MΩ*m
Operating Voltage (at sea level)	≤ 0.75 kVrms
Test voltage (50 Hz/1 min)	≤ 1.5 kVrms

Mechanical data	
Weight	approx. 110 g/m
Static bending radius	≥ 40 mm
Repeated bending radius	80 mm

Environmental data	
Operation temperature	-40 °C ... 85 °C
Installation temperature	-20 °C ... 60 °C
Flame propagation standard	UL 1581 § 1080 (VW-I)

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Environmental data			
Fire characteristics		free of halogenes	
Suitable connectors			
Cable group		S24	
Ordering information			
Item number		Item description	Available as assembly only
84061578		S_06162_D-03	No
Power Matrix			
Calculation: typical Attenuation [formula: (a*f^0.5 + b*f)] and maximum Power CW [formula: (p/f^0.5)]			
a coefficient typical =	0.239	b coefficient typical =	0.023
fmax =	6	P at 1 GHz =	280
Frequency	Nom. attenuation	Nom. attenuation	CW power
GHz	(dB/m)	(dB/ft)	(W)
	sea level 25°C ambient temperature	sea level 25°C ambient temperature	sea level 40°C ambient temperature
0.10	0.078	0.024	885
0.20	0.111	0.034	626
0.40	0.160	0.049	443
0.60	0.199	0.061	361
1.00	0.262	0.080	280
1.50	0.327	0.100	229
2.00	0.384	0.117	198
6.00	0.723	0.221	114

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