

Low-loss, 50 Ohm, 3 GHz, 85°C, ø10.8 mm, LSFH jacket

S_07262_BD

Properties

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



Construction			
Component	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Strand-07	2.82 mm - 0.15 mm
Dielectric	SPE (Foamed Polyethylene)		7.38 mm
Outer conductor	Copper, Silver plated	Braid, 96%	8 mm
Outer conductor	Copper	Wrapped foil, 100%	8.1 mm
Outer conductor	Copper, Tin plated	Braid, 93%	9 mm
Jacket	LSFH (modified polyethylene)	RAL 9005 - bk	10.8 mm +/- 0.15 mm

Electrical data	
Impedance	50 Ω +/-1Ω
Operating frequency	≤ 3 GHz
Capacitance	82 pF/m
Velocity of signal propagation	82 %
Signal delay	4.1 ns/m
Screening effectiveness	90 dB at frequency 3GHz
Insulation resistance	100000000 MΩ*m
Inner conductor resistance	1.95 Ω/km
Operating Voltage (at sea level)	≤ 1.05 kVrms
Phase vs temperature	2370 ppm at temperature -25 ... 85°C
Phase vs bending	0.4 °/GHz
Test voltage (50 Hz/1 min)	≤ 2.1 kVrms

Mechanical data	
Weight	approx. 206 g/m
Static bending radius	≥ 70 mm
Repeated bending radius	110 mm

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Environmental data	
Operation temperature	-40 °C ... 85 °C
Installation temperature	-20 °C ... 60°C
Flame propagation standard	IEC 60332-1
Fire characteristics	free of halogenes
Ozone test	IEC 811-2-1 - class 8

Additional Information
Elimination candidate Alternative type: Spuma_400-RS-FR

Suitable connectors
Cable groupS32

Ordering information		
Item number	Item description	Available as assembly only
22511767	S_07262_BD	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 =	0.1507	b coefficient typical =	0.0353
fmax =	3.0	P at 1 GHz =	520.0
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	0.051	0.016	1644
0.20	0.074	0.023	1163
0.40	0.109	0.033	822
0.60	0.138	0.042	671
1.00	0.186	0.057	520
1.50	0.238	0.073	425
2.00	0.284	0.087	368
3.00	0.367	0.112	300

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