

Low-loss, 50 Ohm, 6 GHz, 85°C, ø5.7 mm, LSFH jacket

S_04262_D-09

Properties

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



Construction			
Component	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire	1.4 mm - 0.1 mm
Dielectric	SPE (Foamed Polyethylene)		3.8 mm
Outer conductor	Copper, Silver plated	Braid, 96%	4.2 mm
Outer conductor	Copper, Silver plated	Braid, 93%	4.7 mm
Jacket	LSFH (modified polyethylene)	RAL 9005 - bk	5.7 mm +/- 0.1 mm

Electrical data	
Impedance	50 Ω +/- 2Ω
Operating frequency	≤ 6 GHz
Capacitance	82 pF/m
Velocity of signal propagation	82 %
Signal delay	4.08 ns/m
Screening effectiveness	80 dB at frequency 0.001 GHz ... 6GHz
Insulation resistance	100000000 MΩ*m
Operating Voltage (at sea level)	≤ 0.5 kVrms
Test voltage (50 Hz/1 min)	≤ 1 kVrms

Mechanical data	
Weight	approx. 63 g/m
Static bending radius	≥ 28 mm
Repeated bending radius	58 mm

Environmental data	
Operation temperature	-40 °C ... 85 °C
Installation temperature	-20 °C ... 60 °C
Flame propagation standard	IEC 60332-1 UL 1581 § 1080 (VW-1) FAR 25.869

Low-loss, 50 Ohm, 6 GHz, 85°C, Ø5.7 mm, LSFH jacket

S_04262_D-09

Environmental data			
Fire characteristics	free of halogenes, acc. standard IEC 60754		
Smoke test	EN 61034-2		
UV resistance	ISO 4892-2A		
Suitable connectors			
Cable group	S16		
Ordering information			
Item number	Item description	Available as assembly only	
84034611	S_04262_D-09	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 =	0.2938	b coefficient typical =	0.0401
fmax =	6	P at 1 GHz =	127
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	0.097	0.030	402
0.20	0.139	0.042	284
0.40	0.202	0.062	201
0.60	0.252	0.077	164
1.00	0.334	0.102	127
1.50	0.420	0.128	104
2.00	0.496	0.151	90
6.00	0.960	0.293	52

HUBER+SUHNER is certified by ISO 9001, ISO 14001, ISO 45001, IATF 16949, AS/EN 9100 and ISO/TS 22163-IRIS. Waiver: Facts and figures herein are for information only and do not represent any warranty of any kind.
DOCUMENT PIM-P946 / Date of publication: 08.08.2024 / uncontrolled copy