

Flexible RF cable

S_06162_D-03 Item: 84061578

Description

S: Low loss RF cables with foam PE dielectrics

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



Technical Data

Construction

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

Print: HUBER+SUHNER S 06162 D-03 50 Ohm (production order number)

Electrical Data

Impedance	50 Ω +/- 1.5
Operating Frequency	6 GHz
Capacitance	82 pF/m
Velocity of signal propagation	82 %
Signal delay	4.08 ns/m
Screening effectiveness	≥ 82 dB (up to 6 GHz)
Operating voltage	≤ 0.75 kV _{rms} (at sea level)
Test voltage	1.5 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight		11 kg/100 m
Min. bending radius	static	40 mm
		80 mm

Environmental Data

Temperature range	-40 °C ... +85 °C
Installation temperature	-20 °C... +60 °C
Flame propagation test	UL 1581 § 1080 (VW-1),
Halogen test	IEC 60754
Halogen free	Yes
2011/65/EU (RoHS - including 2015/863 and 2017/2102)	compliant
1907/2006/EC (REACH)	compliant
2000/53/EC (ELV)	compliant
2012/19/EU (WEEE)	no special marking needed

Additional Information

Remarks

(For details refer to the HUBER+SUHNER RF CABLES GENERAL CATALOGUE or contact your nearest HUBER+SUHNER partner)

Suitable Connectors

Cable group	S24 6 mm / 50 Ohm
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Matrix typical Attenuation [formula: $(a \cdot f^{0.5} + b \cdot f)$] and maximum Power CW [formula: $(p/f^{0.5})$]

Coefficients:

a = 0.239

b = 0.023

f_{max} = 6

P at 1GHz = 280

Frequency (GHz)	Nom. attenuation (dB / m) sea level 25° C ambient temperature	Nom. attenuation (dB / ft) sea level 25° C ambient temperature	Max. CW power (W) sea level 40° C ambient temperature
0,3	0,14	0,042	511
0,6	0,2	0,061	361
0,9	0,25	0,075	295
1,2	0,29	0,088	256
1,5	0,33	0,100	229
1,8	0,36	0,110	209
2,1	0,39	0,120	193
2,4	0,43	0,130	181
2,7	0,45	0,139	170
3,0	0,48	0,147	162
3,3	0,51	0,155	154
3,6	0,54	0,163	148
3,9	0,56	0,171	142
4,2	0,59	0,179	137
4,5	0,61	0,186	132
4,8	0,63	0,193	128
5,1	0,66	0,200	124
5,4	0,68	0,207	120
5,7	0,7	0,214	117
6,0	0,72	0,220	114