

Flexible RF cable

S_04262_D-09 Item: 84034611

Description

S: Low loss RF cables with foam PE dielectrics

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



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire	1.4 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

Print: HUBER+SUHNER S 04262 D-09 50 Ohm (production order number)

Electrical Data

Impedance	50 Ω +/- 2
Operating Frequency	6 GHz
Capacitance	82 pF/m
Velocity of signal propagation	82 %
Signal delay	4.08 ns/m
Screening effectiveness	≥ 80 dB (up to 6 GHz)
Operating voltage	≤ 0.5 kV _{rms} (at sea level)
Test voltage	1 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	6.3 kg/100 m
Min. bending radius	static 28 mm 58 mm

Environmental Data

Temperature range	-40 °C ... +85 °C
Installation temperature	-20 °C... +60 °C
Uv resistance test	ISO 4892-2A
Flame propagation test	IEC 60332-1, UL 1581 § 1080 (VW-1), FAR 25.869
Smoke density test	EN 61034-2
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 S16 4 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 = 0.2938

b = 0.0401

f_{max} = 6

P at 1GHz = 127

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	0,17	0,053	232
0,6	0,25	0,077	164
0,9	0,31	0,096	134
1,2	0,37	0,113	116
1,5	0,42	0,128	104
1,8	0,47	0,142	95
2,1	0,51	0,155	88
2,4	0,55	0,168	82
2,7	0,59	0,180	77
3,0	0,63	0,192	73
3,3	0,67	0,203	70
3,6	0,7	0,214	67
3,9	0,74	0,225	64
4,2	0,77	0,235	62
4,5	0,8	0,245	60
4,8	0,84	0,255	58
5,1	0,87	0,265	56
5,4	0,9	0,274	55
5,7	0,93	0,283	53
6,0	0,96	0,293	52