Data Sheet

Flexible RF cable
S_01162_D-01

Description

S: Low loss RF cables with foam PE dielectrics

50 Ohm, 2 GHz, 85°C, ø2.7 mm, LSFH jacket

Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper	Strand-07	0.54 mm
Dielectric	SPE (Foamed Polyethylene)		1.37 mm
Outer conductor	Copper	Braid, 91%	1.7 mm
Outer conductor	Copper	Braid, 90 %	2.2 mm
Jacket	LSFH (modified polyethylene)	RAL 9005 - bk	2.7 mm +/- 0.1

Print: No print on jacket

Electrical Data

Impedance	50 Ω +/- 2
Operating Frequency	2 GHz
Capacitance	82 pF/m
Velocity of signal propagation	82 %
Signal delay	4.15 ns/m
Insulation resistance	≥ 1 x 10^8 MΩm
Min. screening effectiveness	≥ 50 dB (up to 2 GHz)
Max. operating voltage	≤ 0.2 kV_{rms} (at sea level)
Test voltage	0.4 kV_{rms} (50 Hz/1 min)

Mechanical Data

Weight		1.3 kg/100 m
Min. bending radius	static	12 mm
	repeated (for ≤ 50 bendings)	26 mm
	dynamic	40 mm

Environmental Data

Temperature range	-40 °C... +85 °C
Installation temperature	-20 °C... +60 °C
Halogen test	IEC 60754
2011/65/EU (RoHS)	compliant

Additional Information

Ordering Information

Order as	S_01162_D-01

Remarks

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

Suitable Connectors

Cable group	X3 2 mm / 50 Ohm

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Matrix typical Attenuation [formula: (a*f^0.5 + b*f)] and maximum Power CW [formula: (p/f^0.5)]
Coefficients:

a = 0.7625	b = 0.0428	f_{max} = 2	P at 1GHz = 42

Frequency	Nom. attenuation	Nom. attenuation	Max. CW power
(GHz)	(dB / m)	(dB / ft)	(watt)
	sea level 25° C ambient temperature	sea level 25° C ambient temperature	sea level 40° C ambient temperature
0,1	0,25	0,075	133
0,2	0,35	0,107	94
0,3	0,43	0,131	77
0,4	0,5	0,152	66
0,5	0,56	0,171	59
0,6	0,62	0,188	54
0,7	0,67	0,204	50
0,8	0,72	0,218	47
0,9	0,76	0,232	44
1,0	0,81	0,245	42
1,1	0,85	0,258	40
1,2	0,89	0,270	38
1,3	0,93	0,282	37
1,4	0,96	0,293	35
1,5	1,0	0,304	34
1,6	1,03	0,315	33
1,7	1,07	0,325	32
1,8	1,1	0,335	31
1,9	1,13	0,345	30
2,0	1,16	0,355	30