

Flexible RF cable

S_07262_BD-AH Item: 23023566

Description

S: Low loss RF cables with foam PE dielectrics

Armoured, 50 Ohm, 2 GHz, 85°C, ø15.7 mm, LSFH jacket



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Strand-07	2.82 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
Armor	Steel, Zinc plated	Braid85%	12.15 mm
Jacket	LSFH (modified polyethylene)	RAL 9005 - bk	15.7 mm +/- 0.35

Print: HUBER+SUHNER S 07262 BD AH 50 Ohm (production order number)

Electrical Data

Impedance	50 Ω +/- 1
Operating Frequency	2 GHz
Capacitance	82 pF/m
Velocity of signal propagation	81 %
Signal delay	4.1 ns/m
Operating voltage	≤ 1.05 kV _{rms} (at sea level)
Test voltage	2.1 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	40.5 kg/100 m
Min. bending radius	static
	90 mm
	140 mm

Environmental Data

Temperature range	-40 °C ... +85 °C
Installation temperature	-20 °C... +60 °C
Halogen free	Yes
2011/65/EU (RoHS - including 2015/863 and 2017/2102)	compliant
1907/2006/EC (REACH)	compliant

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	S32 7 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 = 0.161

b = 0.0337

f_{max} = 2

P at 1GHz = 520

Frequency	Nom. attenuation	Nom. attenuation	Max. 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
0,1	0,05	0,017	1644
0,2	0,08	0,024	1163
0,3	0,1	0,030	949
0,4	0,12	0,035	822
0,5	0,13	0,040	735
0,6	0,14	0,044	671
0,7	0,16	0,048	622
0,8	0,17	0,052	581
0,9	0,18	0,056	548
1,0	0,19	0,059	520
1,1	0,21	0,063	496
1,2	0,22	0,066	475
1,3	0,23	0,069	456
1,4	0,24	0,072	439
1,5	0,25	0,076	425
1,6	0,26	0,079	411
1,7	0,27	0,081	399
1,8	0,28	0,084	388
1,9	0,29	0,087	377
2,0	0,3	0,090	368