

Flexible RF cable S_07262_BD

Description

S: Low loss RF cables with foam PE dielectrics

50 Ohm, 3 GHz, 85°C, ø10.8 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

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

Electrical Data

Impedance		50 Ω +/- 1
Operating Frequency		3 GHz
Capacitance		82 pF/m
Velocity of signal propagation		82 %
Signal delay		4.1 ns/m
Screening effectiveness		≥ 90 dB (up to 3 GHz)
Operating voltage		≤ 1.05 kV _{rms} (at sea level)
Test voltage		2.1 kV _{rms} (50 Hz/1 min)
Phase vs Temperature	-25°C... + 85°C	2370 ppm
Phase vs Bending		0.4 °/GHz

Mechanical Data

Weight		20.6 kg/100 m
Min. bending radius	static	70 mm
		110 mm

Environmental Data

Temperature range	-40 °C ... +85 °C
Installation temperature	-20 °C... +60 °C
Flame propagation test	IEC 60332-1,
Halogen test	IEC 60754
Halogen free	Yes
Ozone test	IEC 811-2-1 - class 8
2011/65/EU (RoHS - including 2015/863 and 2017/2102)	compliant
1907/2006/EC (REACH)	compliant

Additional Information

Elimination candidate Alternative type: Spuma_400-RS-FR

Ordering Information

Order as S_07262_BD

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 = 0.1507

b = 0.0353

f_{max} = 3

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
0,15	0,06	0,019	1343
0,3	0,09	0,028	949
0,45	0,12	0,036	775
0,6	0,14	0,042	671
0,75	0,16	0,048	600
0,9	0,17	0,053	548
1,05	0,19	0,058	507
1,2	0,21	0,063	475
1,35	0,22	0,068	448
1,5	0,24	0,072	425
1,65	0,25	0,077	405
1,8	0,27	0,081	388
1,95	0,28	0,085	372
2,1	0,29	0,089	359
2,25	0,31	0,093	347
2,4	0,32	0,097	336
2,55	0,33	0,101	326
2,7	0,34	0,105	316
2,85	0,36	0,108	308
3,0	0,37	0,112	300

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