

Coaxial Cable S_02162_B

Description

PE Foam - 50 Ohm - high screened



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper	Strand-07	0.8 mm
Dielectric	SPE (Foamed Polyethylene)		2.1 mm
Outer conductor	Aluminum / PES	longitudinal Foil, 100%	2.15 mm
Outer conductor	Copper, Tin plated	Braid, 75 %	2.65 mm
Jacket	LSFH (modified polyethylene)	RAL 9005 - bk	3.15 mm +/- 0.05

Print: HUBER+SUHNER S 02162 B 50 Ohm (PA no.)

Electrical Data

Impedance	50 Ω +/- 2
Operating Frequency	6 GHz
Capacitance	82 pF/m
Velocity of signal propagation	81 %
Signal delay	4.08 ns/m
Insulation resistance	$\geq 1 \times 10^8$ M Ω m
Min. screening effectiveness	≥ 80 dB (up to 6 GHz)
Max. operating voltage	≤ 0.25 kV _{rms} (at sea level)
Test voltage	0.5 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	2.5 kg/100 m
Min. bending radius	static repeated (for ≤ 50 bendings) dynamic
	16 mm 30 mm 50 mm

Environmental Data

Temperature range	-40 °C... +85 °C
Installation temperature	-20 °C... +60 °C
Flammability	IEC 60332-1,
Halogen test	IEC 60754
Abraison test	MIL-T-81490 - §4.7.19 - prod. II - modified
Load test	IEC 794-1-E3
Tensile stress test	VW TL 821 33
Flex life test	MIL-T-81490 - §4.7.15 - prod. II - modified
Thermal stress test	IEC 61196-1 § 10.9
2011/65/EU (RoHS)	compliant

Additional Information

Ordering Information

Order as S_02162_B

Remarks

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

Suitable Connectors

Cable group S9 2 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 = 0.435

b = 0.1019

f_{max} = 6

P at 1GHz = 82

Frequency (GHz)	Nom. attenuation (dB / m)	Nom. attenuation (dB / ft)	Max. CW power (watt)
	sea level 25° C ambient temperature	sea level 25° C ambient temperature	sea level 40° C ambient temperature
0,3	0,27	0,082	150
0,6	0,4	0,121	106
0,9	0,5	0,154	86
1,2	0,6	0,183	75
1,5	0,69	0,209	67
1,8	0,77	0,234	61
2,1	0,84	0,257	57
2,4	0,92	0,280	53
2,7	0,99	0,302	50
3,0	1,06	0,323	47
3,3	1,13	0,343	45
3,6	1,19	0,363	43
3,9	1,26	0,383	42
4,2	1,32	0,402	40
4,5	1,38	0,421	39
4,8	1,44	0,440	37
5,1	1,5	0,458	36
5,4	1,56	0,476	35
5,7	1,62	0,494	34
6,0	1,68	0,511	33