Data Sheet

Coaxial Cable
S_02132_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, 90 %	2.55 mm
Jacket	PVC (Polyvinyl chloride)	RAL 9005 - bk	3.2 mm +/- 0.1

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Electrical Data

Impedance	50 Ω +/- 3
Operating Frequency	6 GHz
Capacitance	81 pF/m
Velocity of signal propagation	82 %
Signal delay	4.08 ns/m
Insulation resistance	≥ 1 x 10^8 MΩm
Min. screening effectiveness	≥ 68 dB (up to 6 GHz)
Max. operating voltage	≤ 0.35 kV_{rms} (at sea level)
Test voltage	0.7 kV_{rms} (50 Hz/1 min)

Mechanical Data

Weight		1.9 kg/100 m
Min. bending radius	static	16 mm
	repeated (for ≤ 50 bendings)	30 mm
	dynamic	48 mm

Environmental Data

Temperature range	-25 °C... +85 °C
Installation temperature	-20 °C... +60 °C
Flammability	IEC 60332-1, ,
2011/95/EC (RoHS)	compliant

Additional Information

Ordering Information

Order as	S_02132_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*f^0.5 + b*f)] and maximum Power CW [formula: (p/f^0.5)]
Coefficients:

a =	0.4554	b =	0.0609	f_{max} =	6	P at 1GHz =	90

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 (watt) sea level 40° C ambient temperature
0.3	0.27	0.082	164
0.6	0.39	0.119	116
0.9	0.49	0.148	95
1.2	0.57	0.174	82
1.5	0.65	0.198	73
1.8	0.72	0.220	67
2.1	0.79	0.240	62
2.4	0.85	0.260	58
2.7	0.91	0.278	55
3.0	0.97	0.296	52
3.3	1.03	0.313	50
3.6	1.08	0.330	47
3.9	1.14	0.346	46
4.2	1.19	0.362	44
4.5	1.24	0.378	42
4.8	1.29	0.393	41
5.1	1.34	0.408	40
5.4	1.39	0.423	39
5.7	1.43	0.437	38
6.0	1.48	0.451	37

Waiver: Fact and figures herein are for information only and do not represent any warranty of any kind.