

Coaxial Cable S_04162_B

Description

PE Foam - 50 Ohm - double screen



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper	Wire	1.4 mm
Dielectric	SPE (Foamed Polyethylene)		3.83 mm
Outer conductor	Aluminium / PET	longitudinal Foil, 100%	4 mm
Outer conductor 2	Copper	Braid, 70 %	4.6 mm
Jacket	LSFH (modified polyethylene)	RAL 9005 - bk	5.6 mm +/- 0.1

Print: HUBER+SUHNER S 04162 B 50 Ohm (PA no.)

Electrical Data

Impedance	50 Ω +/- 2
Operating Frequency	6 GHz
Capacitance	81 pF/m
Velocity of signal propagation	83 %
Signal delay	4.01 ns/m
Insulation resistance	$\geq 1 \times 10^8$ M Ω m
Min. screening effectiveness	≥ 80 dB (up to 2.2 GHz)
Max. operating voltage	≤ 0.5 kV _{rms} (at sea level)
Test voltage	1 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	5 kg/100 m
Min. bending radius	static 25 mm
	repeated (for $\leq$ bendings) 60 mm

Environmental Data

Temperature range	-40 °C... +85 °C
Installation temperature	-20 °C... +60 °C
Halogen test	IEC 60754-2
Uv resistance test	ISO 4892-2A
2011/65/EU (RoHS)	compliant

Additional Information

Ordering Information

Order as S_04162_B

Remarks

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

Suitable Connectors

Cable group X9 4 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 = 0.24615

b = 0.02705

f_{max} = 6

P at 1GHz = 138

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	0.14	0.044	252
0.6	0.21	0.063	178
0.9	0.26	0.079	145
1.2	0.3	0.092	126
1.5	0.34	0.104	113
1.8	0.38	0.115	103
2.1	0.41	0.126	95
2.4	0.45	0.136	89
2.7	0.48	0.146	84
3.0	0.51	0.155	80
3.3	0.54	0.163	76
3.6	0.56	0.172	73
3.9	0.59	0.180	70
4.2	0.62	0.188	67
4.5	0.64	0.196	65
4.8	0.67	0.204	63
5.1	0.69	0.211	61
5.4	0.72	0.219	59
5.7	0.74	0.226	58
6.0	0.77	0.233	56