Data Sheet

Coaxial Cable
S_04172_D

Description

PE Foam - 50 Ohm - double screen



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire	1.4 mm
Dielectric	SPE (Foamed Polyethylene)		3.78 mm
Outer conductor	Copper, Silver plated	Braid, 96%	4.2 mm
Outer conductor	Copper, Silver plated	Braid, 94 %	4.7 mm
Jacket	PE (Polyethylene)	RAL 9005 - bk	5.7 mm +/- 0.15

Print: HUBER+SUHNER S 04172 D 50 Ohm (PA no.)

Electrical Data

Impedance	50 Ω +/- 2
Operating Frequency	5 GHz
Capacitance	82 pF/m
Velocity of signal propagation	82 %
Signal delay	4.08 ns/m
Insulation resistance	≥ 1 x 10^8 MΩm
Min. screening effectiveness	≥ 82 dB (up to 1 GHz)
Max. operating voltage	≤ 0.55 kV_{rms} (at sea level)
Test voltage	1.1 kV_{rms} (50 Hz/1 min)

Mechanical Data

Weight		5.5 kg/100 m
Min. bending radius	static	30 mm
	repeated (for ≤ 50 bendings)	57 mm

Environmental Data

Temperature range	-40 °C... +85 °C
Installation temperature	-20 °C... +60 °C
Halogen test	IEC 60754
2011/95/EC (RoHS)	compliant

Additional Information

Ordering Information

Order as	S_04172_D

Remarks

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

Suitable Connectors

Cable group	S16 4 mm / 50 Ohm

Data Sheet

Coaxial Cable
S_04172_D

Matrix typical Attenuation [formula: (a*f^0.5 + b*f)] and maximum Power CW [formula: (p/f^0.5)]
Coefficients:

a =	0.2938	b =	0.0401	f_{max} =	5	P at 1GHz =	190

Frequency	Nom. attenuation	Nom. attenuation	Max. CW power
(GHz)	(dB / m)	(dB / ft)	(watt)
	sea level 25° C ambient temperature	sea level 25° C ambient temperature	sea level 40° C ambient temperature
0.25	0.16	0.048	380
0.5	0.23	0.069	269
0.75	0.28	0.087	219
1.0	0.33	0.102	190
1.25	0.38	0.115	170
1.5	0.42	0.128	155
1.75	0.46	0.140	144
2.0	0.5	0.151	134
2.25	0.53	0.162	127
2.5	0.56	0.172	120
2.75	0.6	0.182	115
3.0	0.63	0.192	110
3.25	0.66	0.201	105
3.5	0.69	0.210	102
3.75	0.72	0.219	98
4.0	0.75	0.228	95
4.25	0.78	0.237	92
4.5	0.8	0.245	90
4.75	0.83	0.253	87
5.0	0.86	0.261	85

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