Data Sheet

Coaxial Cable
S_04233

Description

PE Foam - 75 Ohm - single screen



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper	Wire	0.83 mm
Dielectric	SPE (Foamed Polyethylene)		3.7 mm
Outer conductor	Copper	Braid, 92%	4.35 mm
Jacket	PVC II (low migration)	RAL 9005 - bk	6.1 mm +/- 0.1

Print: HUBER+SUHNER S 04233 75 Ohm (PA no.)

Electrical Data

Impedance	75 Ω +/- 3
Operating Frequency	1 GHz
Capacitance	54 pF/m
Velocity of signal propagation	82 %
Signal delay	4.08 ns/m
Insulation resistance	≥ 1 x 10^8 MΩm
Min. screening effectiveness	≥ 40 dB (up to 1 GHz)
Max. operating voltage	≤ 0.5 kV_{rms} (at sea level)
Test voltage	1 kV_{rms} (50 Hz/1 min)

Mechanical Data

Weight		4.3 kg/100 m
Min. bending radius	static	35 mm
	repeated (for ≤ 50 bendings)	61 mm

Environmental Data

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

Additional Information

Ordering Information

Order as	S_04233

Remarks

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

Suitable Connectors

Cable group	U17 4 mm / 75 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 =	0.2622	b =	0.036	f_{max} =	1	P at 1GHz =	146

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
0.05	0.06	0.018	653
0.1	0.09	0.026	462
0.15	0.11	0.033	377
0.2	0.12	0.038	326
0.25	0.14	0.043	292
0.3	0.15	0.047	267
0.35	0.17	0.051	247
0.4	0.18	0.055	231
0.45	0.19	0.059	218
0.5	0.2	0.062	206
0.55	0.21	0.065	197
0.6	0.22	0.068	188
0.65	0.23	0.072	181
0.7	0.24	0.075	175
0.75	0.25	0.077	169
0.8	0.26	0.080	163
0.85	0.27	0.083	158
0.9	0.28	0.086	154
0.95	0.29	0.088	150
1.0	0.3	0.091	146

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