Data Sheet

Coaxial Cable
S_02223-01

Description

PE Foam - 75 Ohm - single screen



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper	Wire	0.35 mm
Dielectric	SPE (Foamed Polyethylene)		1.55 mm
Outer conductor	Copper	Braid, 94%	2 mm
Jacket	PVC (Polyvinyl chloride)	RAL 6018 - gn	2.55 mm +/- 0.13

Print: No print on jacket

Electrical Data

Impedance	75 Ω +/- 6
Operating Frequency	1 GHz
Capacitance	54 pF/m
Velocity of signal propagation	82 %
Signal delay	4.2 ns/m
Insulation resistance	≥ 1 x 10^8 MΩm
Min. screening effectiveness	≥ 40 dB (up to 1 GHz)
Max. operating voltage	≤ 0.2 kV_{rms} (at sea level)
Test voltage	0.4 kV_{rms} (50 Hz/1 min)

Mechanical Data

Weight		1.1 kg/100 m
Min. bending radius	static	15 mm
	repeated (for ≤ 50 bendings)	26 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_02223-01

Remarks

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

Suitable Connectors

Cable group	S5 2 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 =	0.616	b =	0.067	f_{max} =	1	P at 1GHz =	33

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
0.05	0.14	0.043	148
0.1	0.2	0.061	104
0.15	0.25	0.076	85
0.2	0.29	0.088	74
0.25	0.32	0.099	66
0.3	0.36	0.109	60
0.35	0.39	0.118	56
0.4	0.42	0.127	52
0.45	0.44	0.135	49
0.5	0.47	0.143	47
0.55	0.49	0.150	44
0.6	0.52	0.158	43
0.65	0.54	0.165	41
0.7	0.56	0.171	39
0.75	0.58	0.178	38
0.8	0.6	0.184	37
0.85	0.62	0.190	36
0.9	0.64	0.196	35
0.95	0.66	0.202	34
1.0	0.68	0.208	33

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