Data Sheet

Coaxial Cable
G_02263-05

Description

Single screened coaxial cable - flame retardant - free of halogen

Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Steel, Copper plated	Wire	0.24 mm
Dielectric	PE (Polyethylene)		1.5 mm
Outer conductor	Copper	Braid, 96%	2 mm
Jacket	LSFH (modified polyethylene)	RAL 9005 - bk	2.8 mm +/- 0.1

Print: HUBER + SUHNER G 02263-05 75 Ohm (PA no.)

Electrical Data

Impedance	75 Ω +/- 3
Operating Frequency	1 GHz
Capacitance	67 pF/m
Velocity of signal propagation	66 %
Signal delay	5 ns/m
Insulation resistance	≥ 1 x 10^8 MΩm
Min. screening effectiveness	≥ 67 dB (up to GHz)

Mechanical Data

Weight		1.28 kg/100 m
Min. bending radius	static	15 mm
	repeated (for ≤ 50 bendings)	30 mm

Environmental Data

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

Additional Information

Ordering Information

Order as	G_02263-05

Remarks

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

Suitable Connectors

Cable group	U5 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 =	0.8588	b =	0.0352	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	0.19	0.059	148
0.1	0.28	0.084	104
0.15	0.34	0.103	85
0.2	0.39	0.119	74
0.25	0.44	0.134	66
0.3	0.48	0.147	60
0.35	0.52	0.159	56
0.4	0.56	0.170	52
0.45	0.59	0.180	49
0.5	0.62	0.190	47
0.55	0.66	0.200	44
0.6	0.69	0.209	43
0.65	0.72	0.218	41
0.7	0.74	0.227	39
0.75	0.77	0.235	38
0.8	0.8	0.243	37
0.85	0.82	0.250	36
0.9	0.85	0.258	35
0.95	0.87	0.265	34
1.0	0.89	0.272	33

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