Data Sheet

Coaxial Cable
G_03233_D

Description

PE-75 Ohm - double screen - precision type

Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire	0.47 mm
Dielectric	PE (Polyethylene)		2.95 mm
Outer conductor	Copper, Silver plated	Braid, 99%	3.6 mm
Outer conductor	Copper, Silver plated	Braid, 99 %	4.2 mm
Jacket	PVC (Polyvinyl chloride)	RAL 9005 - bk	5.35 mm +/- 0.15

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Electrical Data

Impedance		75 Ω +/- 1.5
Operating Frequency		2 GHz
Capacitance		67 pF/m
Velocity of signal propagation		66 %
Signal delay		5.03 ns/m
Insulation resistance		≥ 1 x 10^8 MΩm
Min. screening effectiveness		≥ 78 dB (up to 1 GHz)
Max. operating voltage		≤ 2.5 kV_{rms} (at sea level)
Test voltage		5 kV_{rms} (50 Hz/1 min)

Mechanical Data

Weight		6 kg/100 m
Min. bending radius	static	30 mm
	repeated (for ≤ 50 bendings)	55 mm

Environmental Data

Temperature range	-25 °C... +85 °C
Installation temperature	-20 °C... +60 °C
2011/65/EU (RoHS)	compliant

Additional Information

Ordering Information

Order as	G_03233_D

Remarks

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

Suitable Connectors

Cable group	U14 3 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 = 0.453	b = 0.0605	f_{max} = 2	P at 1GHz = 82

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
0,1	0,15	0,046	259
0,2	0,21	0,065	183
0,3	0,27	0,081	150
0,4	0,31	0,095	130
0,5	0,35	0,107	116
0,6	0,39	0,118	106
0,7	0,42	0,128	98
0,8	0,45	0,138	92
0,9	0,48	0,148	86
1,0	0,51	0,157	82
1,1	0,54	0,165	78
1,2	0,57	0,173	75
1,3	0,6	0,181	72
1,4	0,62	0,189	69
1,5	0,65	0,197	67
1,6	0,67	0,204	65
1,7	0,69	0,211	63
1,8	0,72	0,218	61
1,9	0,74	0,225	59
2,0	0,76	0,232	58