Data Sheet

Coaxial Cable
G_04133_D

Description

PE-75 Ohm - double screen - presicion type

Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper	Wire	0.58 mm
Dielectric	PE (Polyethylene)		3.64 mm
Outer conductor	Copper	Braid, 92%	4.4 mm
Outer conductor	Copper	Braid, 91 %	5 mm
Jacket	PVC (Polyvinyl chloride)	RAL 9005 - bk	6.7 mm +/- 0.1

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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	5.07 ns/m
Insulation resistance	≥ 1 x 10^8 MΩm
Min. screening effectiveness	≥ 80 dB (up to 1 GHz)
Max. operating voltage	≤ 3 kV_{rms} (at sea level)
Test voltage	6 kV_{rms} (50 Hz/1 min)

Mechanical Data

Weight		8.1 kg/100 m
Min. bending radius	static	35 mm
	repeated (for ≤ 50 bendings)	67 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	G_04133_D

Remarks

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

Suitable Connectors

Cable group	U18 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 = 0.3308	b = 0.0667	f_{max} = 2	P at 1GHz = 130

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	0,11	0,034	411
0,2	0,16	0,049	291
0,3	0,2	0,061	237
0,4	0,24	0,072	206
0,5	0,27	0,081	184
0,6	0,3	0,090	168
0,7	0,32	0,099	155
0,8	0,35	0,106	145
0,9	0,37	0,114	137
1,0	0,4	0,121	130
1,1	0,42	0,128	124
1,2	0,44	0,135	119
1,3	0,46	0,141	114
1,4	0,48	0,148	110
1,5	0,51	0,154	106
1,6	0,53	0,160	103
1,7	0,54	0,166	100
1,8	0,56	0,172	97
1,9	0,58	0,178	94
2,0	0,6	0,183	92