

Coaxial Cable G_03133-06

Description

PE-75 Ohm - single screen - precision type



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Steel, Copper plated	Strand-07	0.42 mm
Dielectric	PE (Polyethylene)		2.5 mm
Outer conductor	Copper, Tin plated	Braid, 91%	3 mm
Jacket	PVC (Polyvinyl chloride)	RAL 9005 - bk	3.9 mm +/- 0.15

Print: HUBER+SUHNER G 03133-06 75 Ohm (PA no.)

Electrical Data

Impedance	75 Ω +/- 1.5
Operating Frequency	1 GHz
Capacitance	67 pF/m
Velocity of signal propagation	66 %
Signal delay	5 ns/m
Insulation resistance	≥ 1 x 10 ⁸ MQm
Max. operating voltage	≤ 2.2 kV _{rms} (at sea level)
Test voltage	4.4 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	2.2 kg/100 m	
Min. bending radius	static repeated (for ≤ 50 bendings) dynamic	20 mm 40 mm 80 mm

Environmental Data

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

Additional Information

Ordering Information

Order as	G_03133-06
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Remarks

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

Suitable Connectors

Cable group	U6 3 mm / 75 Ohm
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Matrix typical Attenuation [formula: $(a \cdot f^{0.5} + b \cdot f)$] and maximum Power CW [formula: $(p/f^{0.5})$]

Coefficients:

a = 0.778

b = 0.0344

$f_{max} = 1$

P at 1GHz = 45

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	0.18	0.054	201
0.1	0.25	0.076	142
0.15	0.31	0.093	116
0.2	0.35	0.108	101
0.25	0.4	0.121	90
0.3	0.44	0.133	82
0.35	0.47	0.144	76
0.4	0.51	0.154	71
0.45	0.54	0.164	67
0.5	0.57	0.173	64
0.55	0.6	0.182	61
0.6	0.62	0.190	58
0.65	0.65	0.198	56
0.7	0.68	0.206	54
0.75	0.7	0.213	52
0.8	0.72	0.220	50
0.85	0.75	0.228	49
0.9	0.77	0.234	47
0.95	0.79	0.241	46
1.0	0.81	0.248	45