

Coaxial Cable G_04233_D-01

Description

PE-75 Ohm - double screen - precision type



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper	Strand-07	0.64 mm
Dielectric	PE (Polyethylene)		3.75 mm
Outer conductor	Copper, Tin plated	Braid, 93%	4.35 mm
Outer conductor	Copper, Tin plated	Braid, 92 %	5 mm
Jacket	PVC (Polyvinyl chloride)	RAL 9005 - bk	6.7 mm +/- 0.15

Print: HUBER+SUHNER G 04233 D-01 75 Ohm (PA no.)

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	$\geq 1 \times 10^8$ M Ω m
Max. operating voltage	≤ 3 kV _{rms} (at sea level)
Test voltage	6 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight		7.4 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
2011/65/EU (RoHS)	compliant

Additional Information

Ordering Information

Order as	G_04233_D-01
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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	U18 4 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 = 0.38

b = 0.0829

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	0,13	0,039	411
0,2	0,19	0,057	291
0,3	0,23	0,071	237
0,4	0,27	0,083	206
0,5	0,31	0,095	184
0,6	0,34	0,105	168
0,7	0,38	0,115	155
0,8	0,41	0,124	145
0,9	0,44	0,133	137
1,0	0,46	0,141	130
1,1	0,49	0,149	124
1,2	0,52	0,157	119
1,3	0,54	0,165	114
1,4	0,57	0,172	110
1,5	0,59	0,180	106
1,6	0,61	0,187	103
1,7	0,64	0,194	100
1,8	0,66	0,201	97
1,9	0,68	0,208	94
2,0	0,7	0,214	92