Data Sheet

Coaxial Cable
G_04273_D-02

Description

PE-75 Ohm - double screen - presicion 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	RADOX	RAL 9005 - bk	6.7 mm +/- 0.15

Print: HUBER+SUHNER G 04273 D-02 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	≥ 1 x 10^8 MΩm
Min. screening effectiveness	≥ 81 dB (up to 6 GHz)
Max. operating voltage	≤ 3 kV_{rms} (at sea level)
Test voltage	6 kV_{rms} (50 Hz/1 min)

Mechanical Data

Weight		7.8 kg/100 m
Min. bending radius	static	35 mm
	repeated (for ≤ 50 bendings)	67 mm

Environmental Data

Temperature range	-40 °C... +85 °C
Installation temperature	-20 °C... +60 °C
Halogen test	IEC 60754
2011/95/EC (RoHS)	compliant

Additional Information

Ordering Information

Order as	G_04273_D-02

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 = 0.4191	b = 0.0344	f_{max} = 2	P at 1GHz = 134

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
0.1	0.14	0.041	424
0.2	0.19	0.059	300
0.3	0.24	0.073	245
0.4	0.28	0.085	212
0.5	0.31	0.096	190
0.6	0.35	0.105	173
0.7	0.37	0.114	160
0.8	0.4	0.123	150
0.9	0.43	0.131	141
1.0	0.45	0.138	134
1.1	0.48	0.146	128
1.2	0.5	0.153	122
1.3	0.52	0.159	118
1.4	0.54	0.166	113
1.5	0.56	0.172	109
1.6	0.59	0.178	106
1.7	0.6	0.184	103
1.8	0.62	0.190	100
1.9	0.64	0.196	97
2.0	0.66	0.202	95