Data Sheet

Coaxial Cable
G_02212_D-02

Description

PE-50 Ohm - double screen

Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Strand-07	0.48 mm
Dielectric	PE (Polyethylene)		1.5 mm
Outer conductor	Copper, Silver plated	Braid, 95%	2 mm
Outer conductor	Steel, Copper+Silver plated	Braid, 93 %	2.5 mm
Jacket	PUR (Polyurethane)	RAL 2001 - or	3.1 mm +/- 0.1

Print: HUBER+SUHNER G 02212 D-02 50 Ohm (PA no.)

Electrical Data

Impedance	50 Ω +/- 2
Operating Frequency	6 GHz
Capacitance	100 pF/m
Velocity of signal propagation	66 %
Signal delay	5.03 ns/m
Insulation resistance	≥ 1 x 10^8 MΩm
Min. screening effectiveness	≥ 80 dB (up to 1 GHz)
Max. operating voltage	≤ 1.5 kV_{rms} (at sea level)
Test voltage	3 kV_{rms} (50 Hz/1 min)

Mechanical Data

Weight		1.8 kg/100 m
Min. bending radius	static	15 mm
	repeated (for ≤ 50 bendings)	30 mm

Environmental Data

Temperature range	-40 °C... +85 °C
Installation temperature	-20 °C... +60 °C
Halogen test	IEC 60754
2011/65/EU (RoHS)	compliant

Additional Information

Ordering Information

Order as	G_02212_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	U4 2 mm / 50 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 = 0.95	b = 0.125	f_{max} = 6	P at 1GHz = 37

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
0,3	0,56	0,170	68
0,6	0,81	0,247	48
0,9	1,01	0,309	39
1,2	1,19	0,363	34
1,5	1,35	0,412	30
1,8	1,5	0,457	28
2,1	1,64	0,500	26
2,4	1,77	0,540	24
2,7	1,9	0,579	23
3,0	2,02	0,616	21
3,3	2,14	0,652	20
3,6	2,25	0,687	20
3,9	2,36	0,720	19
4,2	2,47	0,753	18
4,5	2,58	0,786	17
4,8	2,68	0,817	17
5,1	2,78	0,848	16
5,4	2,88	0,879	16
5,7	2,98	0,908	15
6,0	3,08	0,938	15