Data Sheet

Coaxial Cable
G_03232_D-01

Description

PE-50 Ohm - double screen

Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Tin plated	Strand-19	0.9 mm
Dielectric	PE (Polyethylene)		2.95 mm
Outer conductor	Copper, Tin plated	Braid, 95%	3.6 mm
Outer conductor	Copper, Tin plated	Braid, 93 %	4.25 mm
Jacket	PVC (Polyvinyl chloride)	RAL 9005 - bk	5.35 mm +/- 0.15

Print: HUBER+SUHNER G 03232 D-01 50 Ohm (PA no.)

Electrical Data

Impedance	50 Ω +/- 2
Operating Frequency	6 GHz
Capacitance	101 pF/m
Velocity of signal propagation	66 %
Signal delay	5.03 ns/m
Insulation resistance	≥ 1 x 10^8 MΩm
Min. screening effectiveness	≥ 78 dB (up to 1 GHz)
Max. operating voltage	≤ 2.5 kV_{rms} (at sea level)
Test voltage	5 kV_{rms} (50 Hz/1 min)

Mechanical Data

Weight		5.7 kg/100 m
Min. bending radius	static	25 mm
	repeated (for ≤ 50 bendings)	50 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_03232_D-01

Remarks

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

Suitable Connectors

Cable group	U9 3 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 =	0.4003	b =	0.1637	f_{max} =	6	P at 1GHz =	110

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
0,3	0,27	0,082	201
0,6	0,41	0,124	142
0,9	0,53	0,161	116
1,2	0,63	0,194	100
1,5	0,74	0,224	90
1,8	0,83	0,253	82
2,1	0,92	0,282	76
2,4	1,01	0,309	71
2,7	1,1	0,335	67
3,0	1,18	0,361	64
3,3	1,27	0,386	61
3,6	1,35	0,411	58
3,9	1,43	0,436	56
4,2	1,51	0,460	54
4,5	1,59	0,483	52
4,8	1,66	0,507	50
5,1	1,74	0,530	49
5,4	1,81	0,553	47
5,7	1,89	0,576	46
6,0	1,96	0,598	45