Data Sheet

Coaxial Cable
G_03262_D-01

HUBER+SUHNER
Excellence in Connectivity Solutions

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, 94%	3.6 mm
Outer conductor	Copper, Tin plated	Braid, 93 %	4.25 mm
Jacket	LSFH (modified polyethylene)	RAL 9005 - bk	5.4 mm +/- 0.1

Print: HUBER+SUHNER G 03262 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		≥ 73 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		5.5 kg/100 m
Min. bending radius	static	27 mm
	repeated (for ≤ 50 bendings)	54 mm

Environmental Data

Temperature range	-40 °C... +85 °C
Installation temperature	-20 °C... +60 °C
Flammability	IEC 60332-1,
Halogen test	IEC 60754
2011/65/EU (RoHS)	compliant

Additional Information

Ordering Information

Order as	G_03262_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 = 0.4431	b = 0.0815	f_{max} = 6	P at 1GHz = 100

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	0,27	0,081	183
0,6	0,39	0,120	129
0,9	0,49	0,150	105
1,2	0,58	0,178	91
1,5	0,66	0,203	82
1,8	0,74	0,226	75
2,1	0,81	0,248	69
2,4	0,88	0,269	65
2,7	0,95	0,289	61
3,0	1,01	0,308	58
3,3	1,07	0,327	55
3,6	1,13	0,346	53
3,9	1,19	0,364	51
4,2	1,25	0,381	49
4,5	1,31	0,398	47
4,8	1,36	0,415	46
5,1	1,42	0,432	44
5,4	1,47	0,448	43
5,7	1,52	0,464	42
6,0	1,57	0,480	41