Data Sheet

Coaxial Cable
G_03262-01

Description

PE-50 Ohm - single 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, 96%	3.6 mm
Jacket	LSFH (modified polyethylene)	RAL 9005 - bk	4.95 mm +/- 0.15

Print: HUBER+SUHNER G 03262-01 50 Ohm (PA no.)

Electrical Data

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

Mechanical Data

Weight		3.9 kg/100 m
Min. bending radius	static	20 mm
	repeated (for ≤ 50 bendings)	50 mm
	dynamic	100 mm

Environmental Data

Temperature range	-40 °C... +85 °C
Installation temperature	-20 °C... +60 °C
Flammability	IEC 60332-1, ,
2011/95/EC (RoHS)	compliant

Additional Information

Ordering Information

Order as	G_03262-01

Remarks

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

Suitable Connectors

Cable group	U7 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 =	0.3455	b =	0.2373	f_{max} =	1	P at 1GHz =	70

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
0.05	0.09	0.027	313
0.1	0.13	0.041	221
0.15	0.17	0.052	181
0.2	0.2	0.062	157
0.25	0.23	0.071	140
0.3	0.26	0.079	128
0.35	0.29	0.088	118
0.4	0.31	0.096	111
0.45	0.34	0.103	104
0.5	0.36	0.111	99
0.55	0.39	0.118	94
0.6	0.41	0.125	90
0.65	0.43	0.132	87
0.7	0.46	0.139	84
0.75	0.48	0.145	81
0.8	0.5	0.152	78
0.85	0.52	0.159	76
0.9	0.54	0.165	74
0.95	0.56	0.171	72
1.0	0.58	0.178	70