Data Sheet

Coaxial Cable
G_03232

Description

PE-50 Ohm - single screen

Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper	Strand-07	0.95 mm
Dielectric	PE (Polyethylene)		2.95 mm
Outer conductor	Copper	Braid, 95%	3.6 mm
Jacket	PVC (Polyvinyl chloride)	RAL 9005 - bk	5 mm +/- 0.15

Print: HUBER+SUHNER G 03232 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	5.03 ns/m
Insulation resistance	≥ 1 x 10^8 MΩm
Min. screening effectiveness	≥ 39 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		3.7 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

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

Data Sheet

Coaxial Cable
G_03232

Matrix typical Attenuation [formula: (a*f^0.5 + b*f)] and maximum Power CW [formula: (p/f^0.5)]
Coefficients:

a =	0.4027	b =	0.08	f_{max} =	1	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
0.05	0.09	0.029	492
0.1	0.14	0.041	348
0.15	0.17	0.051	284
0.2	0.2	0.060	246
0.25	0.22	0.067	220
0.3	0.24	0.075	201
0.35	0.27	0.081	186
0.4	0.29	0.087	174
0.45	0.31	0.093	164
0.5	0.32	0.099	156
0.55	0.34	0.104	148
0.6	0.36	0.110	142
0.65	0.38	0.115	136
0.7	0.39	0.120	131
0.75	0.41	0.125	127
0.8	0.42	0.129	123
0.85	0.44	0.134	119
0.9	0.45	0.138	116
0.95	0.47	0.143	113
1.0	0.48	0.147	110