Data Sheet

Coaxial Cable
G_05232

Description

PE-50 Ohm - single screen

Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper	Strand-07	1.5 mm
Dielectric	PE (Polyethylene)		4.8 mm
Outer conductor	Copper	Braid, 92%	5.6 mm
Jacket	PVC II (low migration)	RAL 9005 - bk	7.4 mm +/- 0.15

Print: HUBER+SUHNER G 05232 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	≥ 40 dB (up to 1 GHz)
Max. operating voltage	≤ 3.5 kV_{rms} (at sea level)
Test voltage	7 kV_{rms} (50 Hz/1 min)

Mechanical Data

Weight		7.7 kg/100 m
Min. bending radius	static	40 mm
	repeated (for ≤ 50 bendings)	75 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_05232

Remarks

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

Suitable Connectors

Cable group	U19 5 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 =	0.2672	b =	0.0757	f_{max} =	1	P at 1GHz =	211

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	0.06	0.019	944
0.1	0.09	0.028	667
0.15	0.11	0.035	545
0.2	0.13	0.041	472
0.25	0.15	0.046	422
0.3	0.17	0.052	385
0.35	0.18	0.056	357
0.4	0.2	0.061	334
0.45	0.21	0.065	315
0.5	0.23	0.069	298
0.55	0.24	0.073	285
0.6	0.25	0.077	272
0.65	0.26	0.081	262
0.7	0.28	0.084	252
0.75	0.29	0.088	244
0.8	0.3	0.091	236
0.85	0.31	0.095	229
0.9	0.32	0.098	222
0.95	0.33	0.101	216
1.0	0.34	0.105	211