

Coaxial Cable G_03272

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	PE (Polyethylene)	RAL 9005 - bk	5 mm +/- 0.1

Print: HUBER+SUHNER G 03272 50 Ohm (PA no.)

Electrical Data

Impedance	50 Ω +/- 2
Operating Frequency	2 GHz
Capacitance	101 pF/m
Velocity of signal propagation	66 %
Signal delay	5.03 ns/m
Insulation resistance	$\geq 1 \times 10^8$ M Ω m
Min. screening effectiveness	≥ 39 dB (up to 2 GHz)
Max. operating voltage	≤ 2.5 kV _{rms} (at sea level)
Test voltage	5 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	3.5 kg/100 m
Min. bending radius	static 30 mm
	repeated (for ≤ 50 bendings) 50 mm

Environmental Data

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

Additional Information

Ordering Information

Order as G_03272

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

Coaxial Cable

G_03272

Matrix typical Attenuation [formula: $(a \cdot f^{0.5} + b \cdot f)$] and maximum Power CW [formula: $(p/f^{0.5})$]

Coefficients:

a = 0.4027

b = 0.08

f_{max} = 2

P at 1GHz = 110

Frequency (GHz)	Nom. attenuation (dB / m)	Nom. attenuation (dB / ft)	Max. CW power (watt)
	sea level 25° C ambient temperature	sea level 25° C ambient temperature	sea level 40° C ambient temperature
0,1	0,14	0,041	348
0,2	0,2	0,060	246
0,3	0,24	0,075	201
0,4	0,29	0,087	174
0,5	0,32	0,099	156
0,6	0,36	0,110	142
0,7	0,39	0,120	131
0,8	0,42	0,129	123
0,9	0,45	0,138	116
1,0	0,48	0,147	110
1,1	0,51	0,156	105
1,2	0,54	0,164	100
1,3	0,56	0,172	96
1,4	0,59	0,179	93
1,5	0,61	0,187	90
1,6	0,64	0,194	87
1,7	0,66	0,201	84
1,8	0,68	0,209	82
1,9	0,71	0,216	80
2,0	0,73	0,222	78