

Flexible triaxial cable

G_03332 Item: 22510149

Description

G: RF cables with PE dielectrics

Triax (RG58 alternative core), 50 Ohm, 2 GHz, 85°C, ø7.3 mm, PVC jacket



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
2 nd Screen	Copper	Braid, 91 %	5.7 mm
Outer Jacket	PVC (Polyvinyl chloride)	RAL 9005 - bk	7.3 mm +/- 0.3

Print: HUBER+SUHNER G 03332 50 Ohm (production order number)

Electrical Data

Impedance	50 Ω +/- 2
Operating Frequency	2 GHz
Capacitance	100.7 pF/m
Velocity of signal propagation	66 %
Signal delay	5.02 ns/m
Screening effectiveness	≥ 40 dB (up to 2 GHz)
Operating voltage	≤ 2.5 kV _{rms} (at sea level)
Test voltage	5 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight		9 kg/100 m
Min. bending radius	static	36 mm
	dynamic	75 mm
		146 mm

Environmental Data

Temperature range	-25 °C ... +85 °C
Installation temperature	-20 °C... +60 °C
Halogen test	n/a
Halogen free	No
2011/65/EU (RoHS - including 2015/863 and 2017/2102)	compliant
1907/2006/EC (REACH)	compliant
2000/53/EC (ELV)	compliant
2012/19/EU (WEEE)	no special marking needed

Additional Information

Extended temperature range -40°C to +85°C is feasible for static applications.

Remarks

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

Suitable Connectors

Cable group W2 3 mm / 50+75 Ohm

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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 = 75

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 (W) sea level 40° C ambient temperature
0,1	0,14	0,041	237
0,2	0,2	0,060	168
0,3	0,24	0,075	137
0,4	0,29	0,087	119
0,5	0,32	0,099	106
0,6	0,36	0,110	97
0,7	0,39	0,120	90
0,8	0,42	0,129	84
0,9	0,45	0,138	79
1,0	0,48	0,147	75
1,1	0,51	0,156	72
1,2	0,54	0,164	68
1,3	0,56	0,172	66
1,4	0,59	0,179	63
1,5	0,61	0,187	61
1,6	0,64	0,194	59
1,7	0,66	0,201	58
1,8	0,68	0,209	56
1,9	0,71	0,216	54
2,0	0,73	0,222	53