

Flexible triaxial cable

G_02332 Item: 22510117

Description

G: RF cables with PE dielectrics

Triax (RG174 alternative core), 50 Ohm, 2 GHz, 85°C, Ø4.25 mm, PVC jacket



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper	Strand-07	0.49 mm
Dielectric	PE (Polyethylene)		1.5 mm
Outer conductor	Copper	Braid, 96%	2 mm
Jacket	PVC (Polyvinyl chloride)	RAL 7035 - gr	2.55 mm +/- 0.13
2 nd Screen	Copper	Braid, 91 %	3.05 mm
Outer Jacket	PVC (Polyvinyl chloride)	RAL 9005 - bk	4.25 mm +/- 0.15

Print: HUBER+SUHNER G 02332 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	5.03 ns/m
Screening effectiveness	≥ 75 dB (up to 2 GHz)
Operating voltage	≤ 1.5 kV _{rms} (at sea level)
Test voltage	3 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight		3 kg/100 m
Min. bending radius	static	20 mm
		42 mm

Environmental Data

Temperature range	-25 °C ... +85 °C
Installation temperature	-20 °C... +60 °C
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

Remarks

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

Suitable Connectors

Cable group	W1 2 mm / 50 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 = 0.817

b = 0.1489

f_{max} = 2

P at 1GHz = 38

Frequency	Nom. attenuation	Nom. attenuation	Max. CW power
(GHz)	(dB / m)	(dB / ft)	(W)
	sea level 25° C ambient temperature	sea level 25° C ambient temperature	sea level 40° C ambient temperature
0,1	0,27	0,083	120
0,2	0,4	0,120	85
0,3	0,49	0,150	69
0,4	0,58	0,176	60
0,5	0,65	0,199	54
0,6	0,72	0,220	49
0,7	0,79	0,240	45
0,8	0,85	0,259	42
0,9	0,91	0,277	40
1,0	0,97	0,294	38
1,1	1,02	0,311	36
1,2	1,07	0,327	35
1,3	1,13	0,343	33
1,4	1,18	0,358	32
1,5	1,22	0,373	31
1,6	1,27	0,388	30
1,7	1,32	0,402	29
1,8	1,36	0,416	28
1,9	1,41	0,429	28
2,0	1,45	0,443	27

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