

Flexible triaxial cable

G_03333 Item: **22510379**

Description

G: RF cables with PE dielectrics

Triax, 75 Ohm, 1 GHz, 85°C, ø7.35 mm, PVC jacket



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper	Strand-07	0.49 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, 90 %	5.7 mm
Outer Jacket	PVC (Polyvinyl chloride)	RAL 9005 - bk	7.35 mm +/- 0.2

Print: HUBER+SUHNER G 03333 75 Ohm (production order number)

Electrical Data

Impedance	75 Ω +/- 3
Operating Frequency	1 GHz
Capacitance	67 pF/m
Velocity of signal propagation	66 %
Signal delay	5 ns/m
Operating voltage	≤ 2.5 kV _{rms} (at sea level)
Test voltage	5 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight		8.4 kg/100 m
Min. bending radius	static	35 mm
	dynamic	73 mm
		147 mm

Environmental Data

Temperature range	-25 °C ... +85 °C
Halogen free	No
2011/65/EU (RoHS - including 2015/863 and 2017/2102)	compliant
1907/2006/EC (REACH)	compliant

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	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 = 0.472

b = 0.117

f_{max} = 1

P at 1GHz = 82

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
0,05	0,11	0,034	367
0,1	0,16	0,049	259
0,15	0,2	0,061	212
0,2	0,23	0,071	183
0,25	0,27	0,081	164
0,3	0,29	0,089	150
0,35	0,32	0,098	139
0,4	0,35	0,105	130
0,45	0,37	0,113	122
0,5	0,39	0,120	116
0,55	0,41	0,126	111
0,6	0,44	0,133	106
0,65	0,46	0,139	102
0,7	0,48	0,145	98
0,75	0,5	0,151	95
0,8	0,52	0,157	92
0,85	0,53	0,163	89
0,9	0,55	0,169	86
0,95	0,57	0,174	84
1,0	0,59	0,180	82