Data Sheet

HUBER+SUHNER

Flexible RF cable
G_03233 Item: 22510135

Description

G: RF cables with PE dielectrics

75 Ohm, 1 GHz, 85°C, ø5 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

Print: HUBER+SUHNER G 03233 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		5.03 ns/m
Screening effectiveness		≥ 39 dB (up to 1 GHz)
Operating voltage		≤ 2.5 kV_{rms} (at sea level)
Test voltage		5 kV_{rms} (50 Hz/1 min)

Mechanical Data

Weight		3.9 kg/100 m
Min. bending radius	static	25 mm
		50 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

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	U12 3 mm / 75 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 =	0.4925	b =	0.035	f_{max} =	1	P at 1GHz =	82

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
0,05	0,11	0,034	367
0,1	0,16	0,049	259
0,15	0,2	0,060	212
0,2	0,23	0,069	183
0,25	0,26	0,078	164
0,3	0,28	0,085	150
0,35	0,3	0,093	139
0,4	0,33	0,099	130
0,45	0,35	0,105	122
0,5	0,37	0,111	116
0,55	0,38	0,117	111
0,6	0,4	0,123	106
0,65	0,42	0,128	102
0,7	0,44	0,133	98
0,75	0,45	0,138	95
0,8	0,47	0,143	92
0,85	0,48	0,147	89
0,9	0,5	0,152	86
0,95	0,51	0,156	84
1,0	0,53	0,161	82

Waiver: Fact and figures herein are for information only and do not represent any warranty of any kind.