Data Sheet

HUBER+SUHNER

Flexible RF cable
G_01132-06

Description

G: RF cables with PE dielectrics

50 Ohm, 3 GHz, 85°C, ø1.8 mm, PVC jacket

Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper	Wire	0.3 mm
Dielectric	PE (Polyethylene)		1 mm
Outer conductor	Copper, Silver plated	Braid, 96%	1.4 mm
Jacket	PVC (Polyvinyl chloride)	RAL 4005 - vio	1.8 mm +/- 0.05

Print: HUBER+SUHNER G 01132-06 50 Ohm (production order number)

Electrical Data

Impedance		50 Ω +/- 3
Operating Frequency		3 GHz
Capacitance		101 pF/m
Velocity of signal propagation		66 %
Signal delay		5.03 ns/m
Screening effectiveness		≥ 38 dB (up to 3 GHz)
Operating voltage		≤ 1 kV_{rms} (at sea level)
Test voltage		2 kV_{rms} (50 Hz/1 min)

Mechanical Data

Weight		0.6 kg/100 m
Min. bending radius	static	9 mm
		20 mm
Tensile strength		≤ 68 N

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

Ordering Information

Order as	G_01132-06

Remarks

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

Suitable Connectors

Cable group	U1 1 mm / 50 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 =	1.2694	b =	0.1746	f_{max} =	3	P at 1GHz =	22

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
0,15	0,52	0,158	57
0,3	0,75	0,228	40
0,45	0,93	0,283	33
0,6	1,09	0,332	28
0,75	1,23	0,375	25
0,9	1,36	0,415	23
1,05	1,48	0,452	21
1,2	1,6	0,488	20
1,35	1,71	0,521	19
1,5	1,82	0,554	18
1,65	1,92	0,585	17
1,8	2,02	0,615	16
1,95	2,11	0,644	16
2,1	2,21	0,672	15
2,25	2,3	0,700	15
2,4	2,39	0,727	14
2,55	2,47	0,754	14
2,7	2,56	0,779	13
2,85	2,64	0,805	13
3,0	2,72	0,830	13