

Flexible RF cable

G_04233_D-01 Item: 22510169

Description

G: RF cables with PE dielectrics

RG59D/RD59 High-flexible alternative, 75 Ohm, 2 GHz, 85°C, ø6.7 mm, PVC jacket



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper	Strand-07	0.64 mm
Dielectric	PE (Polyethylene)		3.75 mm
Outer conductor	Copper, Tin plated	Braid, 93%	4.35 mm
Outer conductor	Copper, Tin plated	Braid, 92 %	5 mm
Jacket	PVC (Polyvinyl chloride)	RAL 9005 - bk	6.7 mm +/- 0.15

Print: HUBER+SUHNER G 04233 D-01 75 Ohm (production order number)

Electrical Data

Impedance	75 Ω +/- 1.5
Operating Frequency	2 GHz
Capacitance	67 pF/m
Velocity of signal propagation	66 %
Signal delay	5.07 ns/m
Operating voltage	≤ 3 kV _{rms} (at sea level)
Test voltage	6 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	7.4 kg/100 m
Min. bending radius	static 35 mm 67 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	U18 4 mm / 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 = 0.38

b = 0.0829

$f_{\max} = 2$

P at 1GHz = 130

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	0,13	0,039	411
0,2	0,19	0,057	291
0,3	0,23	0,071	237
0,4	0,27	0,083	206
0,5	0,31	0,095	184
0,6	0,34	0,105	168
0,7	0,38	0,115	155
0,8	0,41	0,124	145
0,9	0,44	0,133	137
1,0	0,46	0,141	130
1,1	0,49	0,149	124
1,2	0,52	0,157	119
1,3	0,54	0,165	114
1,4	0,57	0,172	110
1,5	0,59	0,180	106
1,6	0,61	0,187	103
1,7	0,64	0,194	100
1,8	0,66	0,201	97
1,9	0,68	0,208	94
2,0	0,7	0,214	92