

## Flexible RF cable

**RG\_59\_B/U** Item: 22510368

### Description

RG: RG type RF cables

RG59, 75 Ohm, 1 GHz, 85°C, ø6.1 mm, PVC jacket



### Technical Data

#### Construction

	Material	Detail	Diameter
Centre conductor	Steel, Copper plated	Wire	0.58 mm
Dielectric	PE (Polyethylene)		3.64 mm
Outer conductor	Copper	Braid, 93%	4.5 mm
Jacket	PVC II (low migration)	RAL 9005 - bk	6.1 mm +/- 0.15

Print: HUBER+SUHNER RG 59 B/U 75 Ohm (production order number)

#### Electrical Data

Impedance	75 Ω +/- 1.5
Operating Frequency	1 GHz
Capacitance	67 pF/m
Velocity of signal propagation	66 %
Signal delay	5.07 ns/m
Screening effectiveness	≥ 40 dB (up to 1 GHz)
Operating voltage	≤ 3 kV <sub>rms</sub> (at sea level)
Test voltage	6 kV <sub>rms</sub> (50 Hz/1 min)

#### Mechanical Data

Weight		5 kg/100 m
Min. bending radius	static	35 mm
		65 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

MIL reference: M17/184-00001 (former reference: M17/29-RG59)

#### Remarks

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

#### Suitable Connectors

Cable group U16 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 = 0.3173

b = 0.0499

$f_{\max} = 1$

P at 1GHz = 101

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	0,07	0,022	452
0,1	0,11	0,032	319
0,15	0,13	0,040	261
0,2	0,15	0,046	226
0,25	0,17	0,052	202
0,3	0,19	0,058	184
0,35	0,21	0,063	171
0,4	0,22	0,067	160
0,45	0,24	0,072	151
0,5	0,25	0,076	143
0,55	0,26	0,080	136
0,6	0,28	0,084	130
0,65	0,29	0,088	125
0,7	0,3	0,092	121
0,75	0,31	0,095	117
0,8	0,32	0,099	113
0,85	0,33	0,102	110
0,9	0,35	0,105	106
0,95	0,36	0,109	104
1,0	0,37	0,112	101