

Flexible RF cable

RG_174_A/U-60 Item: 22511810

Description

RG: RG type RF cables

RG174, 50 Ohm, 1 GHz, 85°C, ø2.8 mm, PVC jacket, UL AWM style 1354



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Steel, Copper plated	Strand-07	0.48 mm
Dielectric	PE (Polyethylene)		1.48 mm
Outer conductor	Copper, Tin plated	Braid, 87%	2 mm
Jacket	PVC (Polyvinyl chloride)	RAL 9005 - bk	2.8 mm +/- 0.1

Print: HUBER+SUHNER RG 174 A/U-60 50 Ohm (UL logo) AWM Style 1354 (production order number)

Electrical Data

Impedance	50 Ω +/- 2
Operating Frequency	1 GHz
Capacitance	101 pF/m
Velocity of signal propagation	66 %
Signal delay	5.03 ns/m
Screening effectiveness	≥ 40 dB (up to 1 GHz)
Operating voltage	≤ 1.5 kV _{rms} (at sea level)
Test voltage	3 kV _{rms} (50 Hz/1 min)
Voltage Rating UL	30 V

Mechanical Data

Weight	1.3 kg/100 m
Min. bending radius	static 15 mm 28 mm

Environmental Data

Temperature range	-25 °C ... +85 °C
Temperature rating UL	60 °C
Installation temperature	-20 °C... +60 °C
Flame propagation test	UL (horizontal flame test),
Halogen free	No
2011/65/EU (RoHS - including 2015/863 and 2017/2102)	compliant
1907/2006/EC (REACH)	compliant
2000/53/EC (ELV)	compliant
2012/19/EU (WEEE)	no special marking needed

Additional Information

MIL reference: M17/196-00001 (former reference: M17/119-RG174)

Remarks

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

Suitable Connectors

Cable group	U2 2 mm / 50 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 = 0.888

b = 0.034

 $f_{\max} = 1$

P at 1GHz = 37

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	0,2	0,061	165
0,1	0,28	0,087	117
0,15	0,35	0,106	96
0,2	0,4	0,123	83
0,25	0,45	0,138	74
0,3	0,5	0,151	68
0,35	0,54	0,164	63
0,4	0,58	0,175	59
0,45	0,61	0,186	55
0,5	0,64	0,197	52
0,55	0,68	0,206	50
0,6	0,71	0,216	48
0,65	0,74	0,225	46
0,7	0,77	0,234	44
0,75	0,79	0,242	43
0,8	0,82	0,250	41
0,85	0,85	0,258	40
0,9	0,87	0,266	39
0,95	0,9	0,274	38
1,0	0,92	0,281	37

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