Data Sheet



Flexible RF cable

RG_174_/U Item: 22510040

Description

RG: RG type RF cables

RG174, 50 Ohm, 1 GHz, 85°C, ø2.55 mm, PVC jacket



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 II (low migration)	RAL 9005 - bk	2.55 mm +/- 0.13

Print: HUBER+SUHNER RG 174 U 50 Ohm (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 (μp

Screening effectiveness \geq 40 dB (up to 1 GHz) Operating voltage \leq 1.5 kV_{rms} (at sea level) Test voltage 3 kV_{rms} (50 Hz/1 min)

Mechanical Data

 Weight
 1.12 kg/100 m

 Min. bending radius
 15 mm

 26 mm
 26 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 compliant

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

Data Sheet



Flexible RF cable

RG_174_/U Item: 22510040

Matrix typical Attenuation [formula: (a*f^0.5 + b*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

HUBER+SUHNER is certified according to ISO 9001, ISO 14001, AS/EN9100, ISO/TS 16949 and IRIS.

www.hubersuhner.com

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