Data Sheet



Flexible RF cable

RG_214_/U Item: 22510057

Description

RG: RG type RF cables

RG214, 50 Ohm, 6 GHz, 85°C, ø10.8 mm, PVC jacket



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Strand-07	2.25 mm
Dielectric	PE (Polyethylene)		7.28 mm
Outer conductor	Copper, Silver plated	Braid, 90.7%	8 mm
Outer conductor	Copper, Silver plated	Braid, 93.9 %	8.7 mm
Jacket	PVC II (low migration)	RAL 9005 - bk	10.8 mm +/- 0.15

Print: HUBER+SUHNER RG 214 U 50 Ohm (production order number)

Electrical Data

Impedance
Operating Frequency
Capacitance
Velocity of signal propagation
Signal delay
Screening effectiveness
Operating voltage
Test voltage
Phase vs Temperature

Phase vs Temperature -40°C... + 70°C Phase vs Bending

Mechanical Data
Weight

Min. bending radius station

repeated (for ≤ 50 bendings)

 \leq 5 kV_{rms} (at sea level) 10 kV_{rms} (50 Hz/1 min) 9 °/GHz

≥ 71 dB (up to 1 GHz)

50 Ω +/- 1

101 pF/m

6 GHz

66 %

5 ns/m

18.5 kg/100 m 55 mm 108 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: M17/190-00001 (former reference: M17/75-RG214)

Remarks

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

Suitable Connectors

Cable group U32 7 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 = 0.202 b = 0.063 $f_{max} = 6$ P at 1GHz = 325

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
0,3	0,13	0,039	593
0,6	0,19	0,059	420
0,9	0,25	0,076	343
1,2	0,3	0,090	297
1,5	0,34	0,104	265
1,8	0,38	0,117	242
2,1	0,43	0,130	224
2,4	0,46	0,141	210
2,7	0,5	0,153	198
3,0	0,54	0,164	188
3,3	0,57	0,175	179
3,6	0,61	0,186	171
3,9	0,64	0,196	165
4,2	0,68	0,207	159
4,5	0,71	0,217	153
4,8	0,74	0,227	148
5,1	0,78	0,237	144
5,4	0,81	0,247	140
5,7	0,84	0,256	136
6,0	0,87	0,266	133

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