

Flexible RF cable

RG_213_/U Item: 22510052

Description

RG: RG type RF cables

RG213, 50 Ohm, 1 GHz, 85°C, ø10.3 mm, PVC jacket



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper	Strand-07	2.25 mm
Dielectric	PE (Polyethylene)		7.25 mm
Outer conductor	Copper	Braid, 96%	8.1 mm
Jacket	PVC II (low migration)	RAL 9005 - bk	10.3 mm +/- 0.1

Print: HUBER+SUHNER RG 213 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 (up to 1 GHz)
Operating voltage	≤ 5 kV _{rms} (at sea level)
Test voltage	10 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	15.3 kg/100 m
Min. bending radius	static 50 mm 100 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: M17/189-00001 (former reference: M17/74-RG213)

Remarks

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

Suitable Connectors

Cable group	U29 7 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 = 0.1679

b = 0.0585

 $f_{\max} = 1$

P at 1GHz = 416

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	0,04	0,012	1860
0,1	0,06	0,018	1316
0,15	0,07	0,022	1074
0,2	0,09	0,026	930
0,25	0,1	0,030	832
0,3	0,11	0,033	760
0,35	0,12	0,037	703
0,4	0,13	0,039	658
0,45	0,14	0,042	620
0,5	0,15	0,045	588
0,55	0,16	0,048	561
0,6	0,17	0,050	537
0,65	0,17	0,053	516
0,7	0,18	0,055	497
0,75	0,19	0,058	480
0,8	0,2	0,060	465
0,85	0,2	0,062	451
0,9	0,21	0,065	439
0,95	0,22	0,067	427
1,0	0,23	0,069	416