

Flexible RF cable RG_214_HIFLEX Item: 22512156

Description

RG: RG type RF cables

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



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Strand-19	2.25 mm
Dielectric	TPO (Olefine TPE)		7.3 mm
Outer conductor	Copper, Silver plated	Braid, 93%	8 mm
Outer conductor	Copper, Silver plated	Braid, 95 %	8.7 mm
Jacket	PVC II (low migration)	RAL 9005 - bk	10.8 mm +/- 0.15

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

Electrical Data

Impedance		50 Ω +/- 2
Operating Frequency		6 GHz
Capacitance		101 pF/m
Velocity of signal propagation		66 %
Signal delay		5.03 ns/m
Screening effectiveness		≥ 70 dB (up to 1 GHz)
Operating voltage		≤ 5 kV _{rms} (at sea level)
Test voltage		10 kV _{rms} (50 Hz/1 min)
Phase vs Temperature	-40°C... + 80°C	16200 ppm
Phase vs Bending		5 °/GHz

Mechanical Data

Weight		18.5 kg/100 m
Min. bending radius	static	15 mm
	repeated (for ≤ 250000 bendings)	60 mm
	dynamic	100 mm

Environmental Data

Temperature range	-25 °C ... +85 °C
Installation temperature	-20 °C... +60 °C
Flame propagation test	IEC 60332-1,
Halogen free	No
2011/65/EU (RoHS - including 2015/863 and 2017/2102)	compliant
1907/2006/EC (REACH)	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

Flexible RF cable RG_214_HIFLEX Item: 22512156

Matrix typical Attenuation [formula: $(a \cdot f^{0.5} + b \cdot f)$] and maximum Power CW [formula: $(p/f^{0.5})$]

Coefficients:

a = 0.285

b = 0.0679

f_{max} = 6

P at 1GHz = 320

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
0,3	0,18	0,054	584
0,6	0,26	0,080	413
0,9	0,33	0,101	337
1,2	0,39	0,120	292
1,5	0,45	0,137	261
1,8	0,5	0,154	239
2,1	0,56	0,169	221
2,4	0,6	0,184	207
2,7	0,65	0,199	195
3,0	0,7	0,213	185
3,3	0,74	0,226	176
3,6	0,79	0,239	169
3,9	0,83	0,252	162
4,2	0,87	0,265	156
4,5	0,91	0,277	151
4,8	0,95	0,290	146
5,1	0,99	0,302	142
5,4	1,03	0,314	138
5,7	1,07	0,325	134
6,0	1,11	0,337	131

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Coaxial Cables](#) category:

Click to view products by [Huber & Suhner](#) manufacturer:

Other Similar products are found below :

[89880-003-1000](#) [CY2389-000](#) [8221-010-U1000](#) [9116-010-U500](#) [1322R-010-1000](#) [1807A-B59-U1000](#) [2020K8421-9X-CS3417](#) [9251-010-1000](#) [9275-010-U1000](#) [935240-000](#) [980704-001](#) [CF2823-000](#) [33312-010-500](#) [CZ1589-000](#) [5022W0809-0CS3263](#) [10610-4-4](#) [EF8108-000](#) [1673B TIN100](#) [672525-001](#) [144517-000](#) [735A1-008-1000](#) [8212-010-U500](#) [480414-000](#) [7915A 009U1000](#) [5024A1311-0](#) [1281S5 010250](#) [1530A 010U1000](#) [9248 010U1000](#) [9244 0101000](#) [1694A 0081000](#) [1190A 0101000](#) [8241F J5C1000](#) [1674A TIN50](#) [7915A 0091000](#) [TRCH-50-2](#) [9066 0031000](#) [7805R 008100](#) [1674A TIN100](#) [9116SB 0101000](#) [9271 0061000](#) [1613A 0101000](#) [1807A B591000](#) [5339Q5 009U500](#) [539945 0091000](#) [9116R 0101000](#) [89207 010100](#) [9058 0101000](#) [8241A 0101000](#) [DA7805R 0101000](#) [C6424](#)