

Coaxial Cable
RG_214_HIFLEX

苏州启道 — 中国区优势专业供应商
sales@qiidao.com

Description

PE-50 Ohm - double screen



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 (PA no.)

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
Insulation resistance		≥ 1 x 10 ⁶ MΩm
Min. screening effectiveness		≥ 70 dB (up to 1 GHz)
Max. 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 repeated (for ≤ 50 bendings) dynamic	15 mm 60 mm 100 mm

Environmental Data

Temperature range	-25 °C... +85 °C
Installation temperature	-20 °C... +60 °C
Flammability	IEC 60332-1,
2011/65/EU (RoHS)	compliant

Additional Information

Ordering Information

Order as	RG_214_HIFLEX
----------	---------------

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
-------------	-------------------

Coaxial Cable RG_214_HIFLEX

苏州启道 — 中国区优势专业供应商
sales@qiidao.com

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 (watt) 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