

Flexible RF cable

GX_03272_D-06 Item: 22511592

Description

GX: RF cables with cross-linked PE dielectrics

RG223 LSFH, 50 Ohm, 6 GHz, 105°C, ø5.4 mm, RADOX® jacket, Flame retardant



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire	0.88 mm
Dielectric	PEX (Polyethylene cross-linked)		2.95 mm
Outer conductor	Copper, Silver plated	Braid, 96%	3.6 mm
Outer conductor	Copper, Silver plated	Braid, 94 %	4.2 mm
Jacket	RADOX	RAL 9005 - bk	5.4 mm +/- 0.1

Print: HUBER+SUHNER GX 03272 D-06 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	≥ 80 dB (up to 6 GHz)
Operating voltage	≤ 2.5 kV _{rms} (at sea level)
Test voltage	5 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	5.5 kg/100 m
Min. bending radius	static 30 mm 54 mm

Environmental Data

Temperature range	-40 °C ... +105 °C
Installation temperature	-20 °C... +60 °C
Flame propagation test	IEC 60332-1,
Halogen test	IEC 60754
Halogen free	Yes
2011/65/EU (RoHS - including 2015/863 and 2017/2102)	compliant
1907/2006/EC (REACH)	compliant

Additional Information

Remarks

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

Suitable Connectors

Cable group	U9 3 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 = 0.3952

b = 0.0779

$f_{\max} = 6$

P at 1GHz = 205

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	0,24	0,073	374
0,6	0,35	0,108	265
0,9	0,45	0,136	216
1,2	0,53	0,160	187
1,5	0,6	0,183	167
1,8	0,67	0,204	153
2,1	0,74	0,224	141
2,4	0,8	0,244	132
2,7	0,86	0,262	125
3,0	0,92	0,280	118
3,3	0,97	0,297	113
3,6	1,03	0,314	108
3,9	1,08	0,330	104
4,2	1,14	0,347	100
4,5	1,19	0,362	97
4,8	1,24	0,378	94
5,1	1,29	0,393	91
5,4	1,34	0,408	88
5,7	1,39	0,423	86
6,0	1,44	0,438	84