

Flexible RF cable

GX_07272 Item: 22510708

Description

GX: RF cables with cross-linked PE dielectrics

RG213 LSFH, 50 Ohm, 2 GHz, 105°C, ø10.3 mm, RADOX® jacket, Flame retardant



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper	Strand-07	2.25 mm
Dielectric	PEX (Polyethylene cross-linked)		7.25 mm
Outer conductor	Copper, Silver plated	Braid, 95%	8.15 mm
Jacket	RADOX	RAL 9005 - bk	10.3 mm +/- 0.15

Print: HUBER+SUHNER GX 07272 50 Ohm (production order number)

Electrical Data

Impedance	50 Ω +/- 2
Operating Frequency	2 GHz
Capacitance	101 pF/m
Velocity of signal propagation	66 %
Signal delay	5.03 ns/m
Screening effectiveness	≥ 41 dB (up to 2 GHz)
Operating voltage	≤ 5 kV _{rms} (at sea level)
Test voltage	10 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight		16.1 kg/100 m
Min. bending radius	static	50 mm
	dynamic	100 mm
		150 mm

Environmental Data

Temperature range	-40 °C ... +105 °C
Installation temperature	-20 °C... +60 °C
Flame propagation test	IEC 60332-1, EN 60332-1-2, IEC 60332-3-25, EN 50266-2-5
Smoke density test	EN 61034-2
Halogen test	IEC 60754
Halogen free	Yes
2011/65/EU (RoHS - including 2015/863 and 2017/2102)	compliant
1907/2006/EC (REACH)	compliant
2000/53/EC (ELV)	compliant
2012/19/EU (WEEE)	no special marking needed

Additional Information

Railway certificates discontinued by end of 2017. Replacement type for railway: RADOX_RF_213.

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 = 0.191

b = 0.0698

$f_{\max} = 2$

P at 1GHz = 560

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
0,1	0,07	0,021	1771
0,2	0,1	0,030	1252
0,3	0,13	0,038	1022
0,4	0,15	0,045	885
0,5	0,17	0,052	792
0,6	0,19	0,058	723
0,7	0,21	0,064	669
0,8	0,23	0,069	626
0,9	0,24	0,074	590
1,0	0,26	0,079	560
1,1	0,28	0,084	534
1,2	0,29	0,089	511
1,3	0,31	0,094	491
1,4	0,32	0,099	473
1,5	0,34	0,103	457
1,6	0,35	0,108	443
1,7	0,37	0,112	430
1,8	0,38	0,116	417
1,9	0,4	0,121	406
2,0	0,41	0,125	396