

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

GX_07272

Properties

- Halogen free alternative to RG_213
- Suitable for use in applications up to 2 GHz
- Low smoke
- Ozone, UV and weathering resistance



Construction			
Component	Material	Detail	Diameter
Centre conductor	Copper	Strand-07	2.25 mm - 0.15 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 mm

Electrical data	
Impedance	50 Ω +/- 2Ω
Operating frequency	≤ 2 GHz
Capacitance	101 pF/m
Velocity of signal propagation	66 %
Signal delay	5.03 ns/m
Screening effectiveness	41 dB at frequency 0.001 GHz ... 2GHz
Insulation resistance	10000000 MΩ*m
Inner conductor resistance	5.74 Ω/km
Operating Voltage (at sea level)	≤ 5 kVrms
Test voltage (50 Hz/1 min)	≤ 10 kVrms

Mechanical data	
Weight	approx. 161 g/m
Static bending radius	≥ 50 mm
Repeated bending radius	100 mm
Dynamic bending radius	< 150 mm

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Environmental data	
Operation temperature	-40 °C ... 105 °C
Installation temperature	-20 °C ... 60 °C
Flame propagation standard	IEC 60332-1
	EN 60332-1-2
	IEC 60332-3-25
	EN 50266-2-5
Fire characteristics	free of halogenes, acc. standard IEC 60754
Smoke test	EN 61034-2

Additional Information

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

Suitable connectors

Cable group	U29
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Ordering information

Item number	Item description	Available as assembly only
22510708	GX_07272	No

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

a coefficient typical =	0.191	b coefficient typical =	0.0698
fmax =	2.0	P at 1 GHz =	560.0
Frequency GHz	Nom. attenuation (dB/m)	Nom. attenuation (dB/ft)	CW power (W)
	sea level 25°C ambient temperature	sea level 25°C ambient temperature	sea level 40°C ambient temperature
0.10	0.067	0.020	1771
0.20	0.099	0.030	1252
0.30	0.126	0.038	1022
0.40	0.149	0.045	885
0.60	0.190	0.058	723
0.80	0.227	0.069	626
1.00	0.261	0.080	560
1.20	0.293	0.089	511
1.40	0.324	0.099	473
1.60	0.353	0.108	443
1.80	0.382	0.116	417
2.00	0.410	0.125	396

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