

Flexible RF cable GX_03272-04

Description

GX: RF cables with cross-linked PE dielectrics

RG58 LSFH, 50 Ohm, 3 GHz, 105°C, Ø4.95 mm, RADOX® jacket,
Flame retardant



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Tin plated	Strand-19	0.9 mm
Dielectric	PEX (Polyethylene cross-linked)		2.95 mm
Outer conductor	Copper, Tin plated	Braid, 96%	3.6 mm
Jacket	RADOX	RAL 9005 - bk	4.95 mm +/- 0.15

Print: HUBER+SUHNER GX 03272-04 50 Ohm (production order number)

Electrical Data

Impedance	50 Ω +/- 2
Operating Frequency	3 GHz
Capacitance	101 pF/m
Velocity of signal propagation	66 %
Signal delay	5.03 ns/m
Screening effectiveness	≥ 40 dB (up to 2 GHz)
Operating voltage	≤ 2.5 kV _{rms} (at sea level)
Test voltage	5 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	4.04 kg/100 m
Min. bending radius	static
	25 mm
	50 mm
	dynamic
	100 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
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_58.

Ordering Information

Order as GX_03272-04

Remarks

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

Suitable Connectors

Cable group U7 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 = 0.387

b = 0.201

f_{max} = 3

P at 1GHz = 130

Frequency (GHz)	Nom. attenuation (dB / m)	Nom. attenuation (dB / ft)	Max. CW power (W)
	sea level 25° C ambient temperature	sea level 25° C ambient temperature	sea level 40° C ambient temperature
0,15	0,18	0,055	336
0,3	0,27	0,083	237
0,45	0,35	0,107	194
0,6	0,42	0,128	168
0,75	0,49	0,148	150
0,9	0,55	0,167	137
1,05	0,61	0,185	127
1,2	0,67	0,203	119
1,35	0,72	0,220	112
1,5	0,78	0,236	106
1,65	0,83	0,253	101
1,8	0,88	0,269	97
1,95	0,93	0,284	93
2,1	0,98	0,300	90
2,25	1,03	0,315	87
2,4	1,08	0,330	84
2,55	1,13	0,345	81
2,7	1,18	0,359	79
2,85	1,23	0,374	77
3,0	1,27	0,388	75

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