

Coaxial Cable GX_04273-12

Description

PE cross-linked - 75 Ohm - single screen - precision type



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Tin plated	Strand-07	0.66 mm
Dielectric	PEX (Polyethylene cross-linked)		3.83 mm
Outer conductor	Copper, Tin plated	Braid, 95%	4.45 mm
Jacket	RADOX	RAL 9005 - bk	6.1 mm +/- 0.1

Print: HUBER+SUHNER GX 04273-12 75 OHM (PA no.)

Electrical Data

Impedance	75 Ω +/- 3
Operating Frequency	1 GHz
Capacitance	67 pF/m
Velocity of signal propagation	66 %
Signal delay	5.05 ns/m
Insulation resistance	$\geq 1 \times 10^8$ MQm
Min. screening effectiveness	≥ 40 dB (up to 1 GHz)
Max. operating voltage	≤ 3 kV _{rms} (at sea level)
Test voltage	5 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	5.7 kg/100 m
Min. bending radius	static 35 mm
	dynamic 60 mm

Environmental Data

Temperature range	-40 °C... +105 °C
Installation temperature	-20 °C... +60 °C
Flammability	IEC 60332-1, EN 60332-1-2,
Smoke density	BS 6853 Annex D
Halogen test	IEC 60754
Toxic fume	BS 6853 Annex B
2011/95/EC (RoHS)	compliant

Additional Information

DIN 5510-2 compliant

Railway certificates discontinued by end of 2017. Replacement type for railway: RADOX_RF_59.

Ordering Information

Order as GX_04273-12

Remarks

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

Suitable Connectors

Cable group U16 4 mm / 75 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 = 0.325

b = 0.163

f_{max} = 1

P at 1GHz = 93

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
0.05	0.08	0.025	416
0.1	0.12	0.036	294
0.15	0.15	0.046	240
0.2	0.18	0.054	208
0.25	0.2	0.062	186
0.3	0.23	0.069	170
0.35	0.25	0.076	157
0.4	0.27	0.083	147
0.45	0.29	0.089	139
0.5	0.31	0.095	132
0.55	0.33	0.101	125
0.6	0.35	0.107	120
0.65	0.37	0.112	115
0.7	0.39	0.118	111
0.75	0.4	0.123	107
0.8	0.42	0.128	104
0.85	0.44	0.134	101
0.9	0.46	0.139	98
0.95	0.47	0.144	95
1.0	0.49	0.149	93