

HUBER+SUHNER® DATA SHEET

Coaxial Cable: GX_04273-12

Rev.: L



Description

Single screened coaxial cable - flame retardant - free of halogen - 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 (GKW-S)	RAL 9005 - bk	6.1 mm +/- 0.1
Print	HUBER+SUHNER GX 04273-12 75 OHM (PA no.)		

Electrical Data

Impedance	75 Ω +/- 3
Max. operating frequency	1 GHz
Capacitance	67 pF/m
Velocity of signal propagation	66 %
Signal delay	5.06 ns/m
Insulation resistance	$\geq 1 \times 10^8$ M Ω m
Min. screening effectiveness	>40 dB (up to 1 GHz)
Max. operating voltage	3 kV _{rms} (at sea level)
Test voltage	6 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	5.7 kg/100 m
Min. bending radius	static 35 mm
	dynamic 91 mm

Environmental Data

Temperature range	-40 °C... + 105 °C
Installation temperature	-20 °C... + 60 °C
Flammability	IEC 60332-1, DIN EN 50265-2-1
Smoke density	BS 6853 Annex D
Halogen free	IEC 60754
Toxic fume	BS 6853 Annex B
2002/95/EC (RoHS)	compliant

Ordering Information

Order as GX_04273-12

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	crimped (U16)
	clamped (U15)
	soldered —

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Matrix **Attenuation** [formula: $(a \cdot f^{0.5} + b \cdot f)$] **and Power CW** [formula: $(p \cdot f^{0.5})$]

Coefficients:

a=	0.325	b=	0.163	f _{max.} =	1	p _{at} 1GHz =	93
	Frequency		Nom. attenuation		Nom. attenuation		Max. CW power
	(GHz)		(dB / m)		(dB / ft)		(watt)
			sea level 25° C ambient temperature		sea level 25° C ambient temperature		sea level 40° C ambient temperature
	0.05		0.08		0.024		416
	0.10		0.12		0.037		294
	0.15		0.15		0.046		240
	0.20		0.18		0.055		208
	0.25		0.20		0.061		186
	0.30		0.23		0.070		170
	0.35		0.25		0.076		157
	0.40		0.27		0.082		147
	0.45		0.29		0.088		139
	0.50		0.31		0.094		132
	0.55		0.33		0.101		125
	0.60		0.35		0.107		120
	0.65		0.37		0.113		115
	0.70		0.39		0.119		111
	0.75		0.40		0.122		107
	0.80		0.42		0.128		104
	0.85		0.44		0.134		101
	0.90		0.46		0.140		98
	0.95		0.47		0.143		95
	1.00		0.49		0.149		93

HUBER+SUHNER is certified according to ISO 9001 and ISO 14001

WAIVER!

It is exclusively in written agreements that we provide our customers with warrants and representations as to the technical specifications and/or the fitness for any particular purpose. The facts and figures contained herein are carefully compiled to the best of our knowledge, but they are intended for general informational purposes only.



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