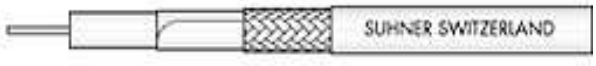
HUBER+SUHNER® DATA SHEET
Coaxial Cable: S_12272-04

Rev.: I



Description

PE Foam - 50 Ohm - double screened

Technical Data

Construction

	Material	Detail	Diameter		
Centre conductor	Aluminium / Copper	Wire	4.2	mm	
Dielectric	SPE (Foamed Polyethylene)		11.5	mm	
Outer conductor	Copper	longitudinal Foil, 100 %	11.55	mm	
Outer conductor	Copper	Braid, 60 %	12.5	mm	
Jacket	PE	RAL 9005 - bk	15	mm	+/- 0.2
Print	HUBER+SUHNER S 12272-04 50 Ohm (PA no.)				

Electrical Data

Impedance	50	Ω +/- 2
Max. operating frequency	10	GHz
Capacitance	82	pF/m
Velocity of signal propagation	82	%
Signal delay	4.08	ns/m
Insulation resistance	≥1 x	10^8 MΩm
Min. screening effectiveness	>38	dB (up to 10 GHz)
Max. operating voltage	1.7	kV_{rms} (at sea level)
Test voltage	3.4	kV_{rms} (50 Hz/1 min)

Mechanical Data

Weight		19.1	kg/100 m
Min. bending radius	static	150	mm
	repeated (for max. 50 bendings)	300	mm

Environmental Data

Temperature range		-40 °C... + 85 °C
Installation temperature	-20 °C... + 60 °C	
Halogen free	IEC 60754	
2002/95/EC (RoHS)	compliant	

Ordering Information

Order as	S_12272-04

Additional Information

Remarks

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

Cable group U40 12 mm / 50 Ohm

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Matrix **Attenuation** [formula: (a*f^0.5 + b*f)] **and Power CW** [formula: (p*/ f^0.5)]

Coefficients:

a=	0.0817	b=	0.025	$f_{max.}$=	10	$p_{at\ 1GHz}$ =	854
	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
	0.5		0.07		0.021		1208
	1.0		0.11		0.034		854
	1.5		0.14		0.043		697
	2.0		0.17		0.052		604
	2.5		0.19		0.058		540
	3.0		0.22		0.067		493
	3.5		0.24		0.073		456
	4.0		0.26		0.079		427
	4.5		0.29		0.088		403
	5.0		0.31		0.094		382
	5.5		0.33		0.101		364
	6.0		0.35		0.107		349
	6.5		0.37		0.113		335
	7.0		0.39		0.119		323
	7.5		0.41		0.125		312
	8.0		0.43		0.131		302
	8.5		0.45		0.137		293
	9.0		0.47		0.143		285
	9.5		0.49		0.149		277
	10.0		0.51		0.155		270

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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