

HUBER+SUHNER® DATA SHEET

Coaxial Cable: S_03232-01



Description

PE Foam - 50 Ohm - single screen

Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper	Strand-07	1.2 mm
Dielectric	SPE (Foamed Polyethylene)		2.95 mm
Outer conductor	Copper	Braid, 95 %	3.6 mm
Jacket	PVC II (low migration)	RAL 9005 - bk	5 mm +/- 0.15
Print	HUBER+SUHNER S 03232-01 50 Ohm (PA no.)		

Electrical Data

Impedance	50 Ω +/- 2
Max. operating frequency	1 GHz
Capacitance	82 pF/m
Velocity of signal propagation	82 %
Signal delay	4.1 ns/m
Insulation resistance	$\geq 1 \times 10^8$ M Ω m
Min. screening effectiveness	> 40 dB (up to 1 GHz)
Max. operating voltage	0.45 kV _{rms} (at sea level)
Test voltage	0.9 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	3.8 kg/100 m
Min. bending radius	static 25 mm
	repeated (for max. 50 bendings) 50 mm

Environmental Data

Temperature range	-25 °C... + 85 °C
Installation temperature	-20 °C... + 60 °C
2002/95/EC (RoHS)	compliant

Ordering Information

Order as S_03232-01

Additional Information

Remarks

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

Cable group U8 3 mm / 50 Ohm

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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=	0.3985	b=	0.0913	f _{max} =	1	p _{at} 1GHz =	98
	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		0.09		0.027		438
	0.10		0.14		0.043		310
	0.15		0.17		0.052		253
	0.20		0.20		0.061		219
	0.25		0.22		0.067		196
	0.30		0.25		0.076		179
	0.35		0.27		0.082		166
	0.40		0.29		0.088		155
	0.45		0.31		0.094		146
	0.50		0.33		0.101		139
	0.55		0.35		0.107		132
	0.60		0.36		0.110		127
	0.65		0.38		0.116		122
	0.70		0.40		0.122		117
	0.75		0.41		0.125		113
	0.80		0.43		0.131		110
	0.85		0.45		0.137		106
	0.90		0.46		0.140		103
	0.95		0.48		0.146		101
	1.00		0.49		0.149		98

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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