

HUBER+SUHNER® DATA SHEET

Coaxial Cable: EZ_250_AL_TP



Description

SEMI RIGID, the formstable microwave cable

Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire	1.63 mm
Dielectric	PTFE		5.31 mm
Outer conductor	Aluminum / TP	Tube, 100 %	6.35 mm

Electrical Data

Impedance	50	Ω +/- 0.5
Max. operating frequency	18	GHz
Capacitance	97.1	pF/m
Velocity of signal propagation	69.5	%
Signal delay	4.8	ns/m
Insulation resistance	$\geq 1 \times 10^8$	M Ω m
Min. screening effectiveness	>120	dB (up to 18 GHz)
Max. operating voltage	3	kV _{rms} (at sea level)
Test voltage	7.5	kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	8.86	kg/100 m
Min. bending radius	static	9.53 mm

Environmental Data

Temperature range	-40 °C... + 90 °C
Installation temperature	-20 °C... + 60 °C
2002/95/EC (RoHS)	compliant

Ordering Information

Order as	EZ_250_AL_TP
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Additional Information

Remarks

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

Suitable Connectors

Cable group	crimped (Y7)
	clamped —
	soldered —

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Rev.: G

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

Coefficients:

a=	0.1963	b=	0.03967	f _{max.} =	18	p _{at} 1GHz =	1400
	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
	0.9		0.22		0.067		1476
	1.8		0.33		0.101		1043
	2.7		0.43		0.131		852
	3.6		0.52		0.158		738
	4.5		0.59		0.180		660
	5.4		0.67		0.204		602
	6.3		0.74		0.226		558
	7.2		0.81		0.247		522
	8.1		0.88		0.268		492
	9.0		0.95		0.290		467
	9.9		1.01		0.308		445
	10.8		1.07		0.326		426
	11.7		1.14		0.347		409
	12.6		1.20		0.366		394
	13.5		1.26		0.384		381
	14.4		1.32		0.402		369
	15.3		1.37		0.418		358
	16.2		1.43		0.436		348
	17.1		1.49		0.454		339
	18.0		1.55		0.472		330

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

WAIVER!

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