

HUBER+SUHNER® DATA SHEET

Coaxial Cable: EZ_250_TP_M17



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	Copper / 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	$\geq 1 \times 10^8$	$M\Omega m$
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	15.8	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_TP_M17
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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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Matrix **Attenuation** [formula: $(a \cdot f^{0.5} + b \cdot f)$] **and Power CW** [formula: $(p \cdot f^{0.5})$]

Coefficients:

a=	0.1836	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		0.21		0.064		1476
	1.8		0.32		0.098		1043
	2.7		0.41		0.125		852
	3.6		0.49		0.149		738
	4.5		0.57		0.174		660
	5.4		0.64		0.195		602
	6.3		0.71		0.216		558
	7.2		0.78		0.238		522
	8.1		0.84		0.256		492
	9.0		0.91		0.277		467
	9.9		0.97		0.296		445
	10.8		1.03		0.314		426
	11.7		1.09		0.332		409
	12.6		1.15		0.351		394
	13.5		1.21		0.369		381
	14.4		1.27		0.387		369
	15.3		1.33		0.405		358
	16.2		1.38		0.421		348
	17.1		1.44		0.439		339
	18.0		1.49		0.454		330

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

WAIVER!

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