

HUBER+SUHNER® DATA SHEET

Coaxial Cable: EZ_86_TP_M17

Description

SEMI RIGID, the formstable microwave cable



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Steel, Copper+Silver plated	Wire	0.51 mm
Dielectric	PTFE (Polytetrafluorethyln.)		1.68 mm
Outer conductor	Copper / TP	Tube, 100 %	2.2 mm

Electrical Data

Impedance	50	Ω +/- 1.5
Max. operating frequency	20	GHz
Capacitance	105	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 20 GHz)
Max. operating voltage	1.5	kV _{rms} (at sea level)

Mechanical Data

Weight	2.35	kg/100 m
Min. bending radius	static	3.18 mm

Environmental Data

Temperature range	-40 °C... + 125 °C
Installation temperature	-20 °C... + 60 °C

Ordering Information

Order as EZ_86_TP_M17

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 Y3 / Y11

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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=	0.58454	b=	0.03967	f _{max.} =	20	p _{at} 1GHz =	130
	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
	1.0		0.62		0.189		130
	2.0		0.91		0.277		92
	3.0		1.13		0.344		75
	4.0		1.33		0.405		65
	5.0		1.51		0.460		58
	6.0		1.67		0.509		53
	7.0		1.82		0.555		49
	8.0		1.97		0.600		46
	9.0		2.11		0.643		43
	10.0		2.25		0.686		41
	11.0		2.38		0.725		39
	12.0		2.50		0.762		38
	13.0		2.62		0.799		36
	14.0		2.74		0.835		35
	15.0		2.86		0.872		34
	16.0		2.97		0.905		33
	17.0		3.08		0.939		32
	18.0		3.19		0.972		31
	19.0		3.30		1.006		30
	20.0		3.41		1.039		29

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

WAIVER!

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