

HUBER+SUHNER® DATA SHEET

Coaxial Cable: EZ_118_TP



Description

SEMI RIGID, the formstable microwave cable

Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire	0.81 mm
Dielectric	PTFE (Polytetrafluorethyln.)		2.41 mm
Outer conductor	Copper / TP	Tube, 100 %	2.95 mm

Electrical Data

Impedance	50	Ω +/- 1.5
Max. operating frequency	40	GHz
Capacitance	76.2	pF/m
Velocity of signal propagation	80	%
Signal delay	4.17	ns/m
Insulation resistance	$\geq 1 \times 10^8$	M Ω m
Min. screening effectiveness	>120	dB (up to 18 GHz)
Max. operating voltage	1.2	kV _{rms} (at sea level)
Test voltage	3.5	kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	3.07	kg/100 m
Min. bending radius	20	mm
	static	

Environmental Data

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

Ordering Information

Order as EZ_118_TP

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 Y10

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Rev.: I

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

Coefficients:

a=	0.3804	b=	0.00791	f _{max} =	40	p _{at} 1GHz =	598
	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
	2.0		0.55		0.168		423
	4.0		0.79		0.241		299
	6.0		0.98		0.299		244
	8.0		1.14		0.347		211
	10.0		1.28		0.390		189
	12.0		1.41		0.430		173
	14.0		1.53		0.466		160
	16.0		1.65		0.503		150
	18.0		1.76		0.536		141
	20.0		1.86		0.567		134
	22.0		1.96		0.597		127
	24.0		2.05		0.625		122
	26.0		2.15		0.655		117
	28.0		2.23		0.680		113
	30.0		2.32		0.707		109
	32.0		2.40		0.731		106
	34.0		2.49		0.759		103
	36.0		2.57		0.783		100
	38.0		2.65		0.808		97
	40.0		2.72		0.829		95

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

WAIVER!

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