

HUBER+SUHNER® DATA SHEET

Coaxial Cable: SUCOFLEX_104_P



Description

SUCOFLEX 100, the flexible, high performance microwave cable

Technical Data

Construction

	Material	Detail	Diameter	
Centre conductor	Copper, Silver plated	Strand-19		
Dielectric	PTFE			
Outer conductor	Copper, Silver plated	wrapped Foil, 100 %		
Outer conductor	Copper, Silver plated	Braid		
Jacket	FEP	RAL 5000 - bl	5.5	mm

Electrical Data

Impedance	50	Ω
Max. operating frequency	26.5	GHz
Capacitance	87	pF/m
Velocity of signal propagation	77	%
Signal delay	4.3	ns/m
Insulation resistance	≥1 x	10 ⁸ MΩm
Min. screening effectiveness	>90	dB (up to 18 GHz)
Max. operating voltage	2.4	kV _{rms} (at sea level)

Mechanical Data

Weight	6.9	kg/100 m
Min. bending radius	static	16 mm
	dynamic	25 mm

Environmental Data

Temperature range	-55 °C... + 165 °C
Flammability 2002/95/EC (RoHS)	MIL-T-87104 - §4.6.4.8 compliant

Ordering Information

Order as SUCOFLEX_104_P (available only as assembly)

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 (n/a)
	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=	0.293	b=	0.0175	f _{max.} =	26.5	p _{at} 1GHz =	793
	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
	1.3		0.36		0.110		696
	2.7		0.53		0.162		483
	4.0		0.66		0.201		397
	5.3		0.77		0.235		344
	6.6		0.87		0.265		309
	8.0		0.97		0.296		280
	9.3		1.06		0.323		260
	10.6		1.14		0.347		244
	11.9		1.22		0.372		230
	13.3		1.30		0.396		217
	14.6		1.38		0.421		208
	15.9		1.45		0.442		199
	17.2		1.52		0.463		191
	18.6		1.59		0.485		184
	19.9		1.66		0.506		178
	21.2		1.72		0.524		172
	22.5		1.78		0.543		167
	23.9		1.85		0.564		162
	25.2		1.91		0.582		158
	26.5		1.97		0.600		154

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

WAIVER!

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