

HUBER+SUHNER® DATA SHEET

Coaxial Cable: SUCOFLEX_104_PE

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	PUR	RAL 5009 - 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	6.8	kg/100 m
Min. bending radius	static	16 mm
	dynamic	25 mm

Environmental Data

Temperature range	-40 °C... + 85 °C
-------------------	-------------------

Ordering Information

Order as SUCOFLEX_104_PE (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 n/a

HUBER+SUHNER® DATA SHEET

Coaxial Cable: SUCOFLEX_104_PE



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 =	148
	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		130
	2.7		0.53		0.162		90
	4.0		0.66		0.201		74
	5.3		0.77		0.235		64
	6.6		0.87		0.265		58
	8.0		0.97		0.296		52
	9.3		1.06		0.323		49
	10.6		1.14		0.347		45
	11.9		1.22		0.372		43
	13.3		1.30		0.396		41
	14.6		1.38		0.421		39
	15.9		1.45		0.442		37
	17.2		1.52		0.463		36
	18.6		1.59		0.485		34
	19.9		1.66		0.506		33
	21.2		1.72		0.524		32
	22.5		1.78		0.543		31
	23.9		1.85		0.564		30
	25.2		1.91		0.582		29
	26.5		1.97		0.600		29

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

WAIVER!

It is exclusively in written agreements that we provide our customers with warrants and representations as to the technical specifications and/or the fitness for any particular purpose. The facts and figures contained herein are carefully compiled to the best of our knowledge, but they are intended for general informational purposes only.



HUBER+SUHNER AG
RF Industrial
9100 Herisau, Switzerland
 Phone +41 (0)71 353 41 11
 Fax +41 (0)71 353 45 90
 www.hubersuhner.com

HUBER+SUHNER – Excellence in Connectivity Solutions