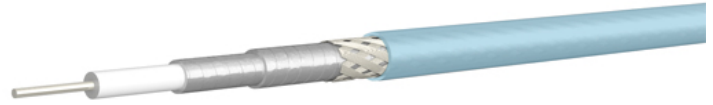


Coaxial Cable MULTIFLEX_86_HE

Description

The flexible microwave cable



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire	
Dielectric	PTFE (Polytetrafluoroethylene)		
Outer conductor	Copper, Silver plated	wrapped Foil, 100%	
Outer conductor	Copper, Silver plated	wrapped Foil, 100 %	
Outer conductor	Copper, Silver plated	Braid, 99 %	
Jacket	FEP (Fluorinated ethylene propylene)	RAL 5015 - bl	2.65 mm +/- 0.1

Print: HUBER+SUHNER MULTIFLEX 86 (PA no.)

Electrical Data

Impedance	50 Ω +/- 2
Operating Frequency	67 GHz
Capacitance	94.6 pF/m
Velocity of signal propagation	70.6 %
Signal delay	4.72 ns/m
Insulation resistance	≥ 1 x 10 ⁸ MQm
Min. screening effectiveness	≥ 80 dB (up to 26.5 GHz)
Max. operating voltage	≤ 1.5 kV _{rms} (at sea level)
Test voltage	3.5 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	2.1 kg/100 m
Min. bending radius	static 6 mm dynamic 20 mm

Environmental Data

Temperature range	-60 °C... +165 °C
Installation temperature	-20 °C... +60 °C
Flammability	IEC 60332-1, UL 1581 § 1080 (VW-1),
2011/95/EC (RoHS)	compliant

Additional Information

Ordering Information

Order as MULTIFLEX_86_HE (available only as assembly)

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 Y11 2 mm / 50 Ohm

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

Coefficients:

a = 0.68

b = 0.0374

f_{max} = 67

P at 1GHz = 140

Frequency (GHz)	Nom. attenuation (dB / m) sea level 25° C ambient temperature	Nom. attenuation (dB / ft) sea level 25° C ambient temperature	Max. CW power (watt) sea level 40° C ambient temperature
3.35	1.37	0.418	76
6.7	2.01	0.613	54
10.05	2.53	0.772	44
13.4	2.99	0.911	38
16.75	3.41	1.039	34
20.1	3.8	1.158	31
23.45	4.17	1.271	29
26.8	4.52	1.378	27
30.15	4.86	1.482	25
33.5	5.19	1.581	24
36.85	5.51	1.678	23
40.2	5.81	1.772	22
43.55	6.12	1.864	21
46.9	6.41	1.954	20
50.25	6.7	2.042	20
53.6	6.98	2.128	19
56.95	7.26	2.213	19
60.3	7.54	2.297	18
63.65	7.81	2.379	18
67.0	8.07	2.460	17