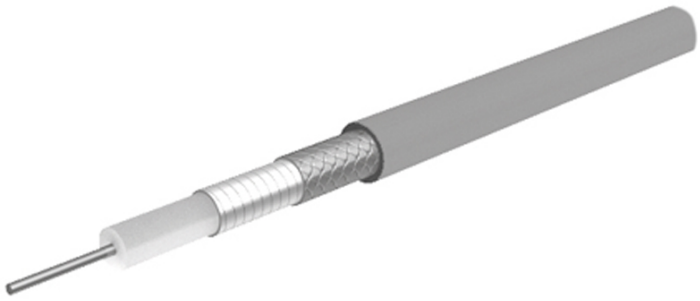
Data Sheet

Flexible microwave cable
MULTIFLEX_210_CT

Description

Multiflex: Flexible alternatives to semi-rigid microwave cables

50 Ohm, 30 GHz, 200°C, ø4.43mm, FEP jacket



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Aluminium, Copper cladded, Silver plated	Wire	
Dielectric	Low density fluorine polymer		
Outer conductor	Copper, Silver plated	wrapped Foil, 100%	
Outer conductor	Copper, Silver plated	Braid, 84 %	
Jacket	FEP (Fluorinated ethylene propylene)	RAL 5015 - bl	5 mm +/- 0.1

Print: HUBER+SUHNER MULTIFLEX 210 CT 50 Ohm (PA no.)

Electrical Data

Impedance		50 Ω +/- 2
Operating Frequency		30 GHz
Capacitance		80 pF/m
Velocity of signal propagation		84 %
Signal delay		4 ns/m
Screening effectiveness		≥ 90 dB (up to 18 GHz)
Operating voltage		≤ 0.6 kV_{rms} (at sea level)
Test voltage		1.3 kV_{rms} (50 Hz/1 min)
Phase vs Temperature	-55°C... + 125°C	500 ppm

Mechanical Data

Weight		4.5 kg/100 m
Min. bending radius	static	27.5 mm
	repeated	
	dynamic	50 mm

Environmental Data

Temperature range	-65 °C ... +200 °C
Installation temperature	-20 °C... +60 °C
Halogen free	No
2011/65/EU (RoHS)	compliant
2006/1907/EC (REACH)	compliant
2000/53/EC (ELV)	compliant
2012/19/EU (WEEE)	no special marking needed

Additional Information

Ordering Information

Order as	MULTIFLEX_210_CT (available only as assembly)

Remarks

(For details refer to the HUBER+SUHNER RF CABLES GENERAL CATALOGUE or contact your nearest HUBER+SUHNER partner)

Suitable Connectors

Cable group	Y28 4mm / 50 Ohm

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Matrix typical Attenuation [formula: (a*f^0.5 + b*f)] and maximum Power CW [formula: (p/f^0.5)]
Coefficients:

a = 0.244	b = 0.02	f_{max} = 30	P at 1GHz = 628

Frequency	Nom. attenuation	Nom. attenuation	Max. CW power
(GHz)	(dB / m)	(dB / ft)	(W)
	sea level 25° C ambient temperature	sea level 25° C ambient temperature	sea level 40° C ambient temperature
1,5	0,33	0,100	513
3,0	0,48	0,147	363
4,5	0,61	0,185	296
6,0	0,72	0,219	256
7,5	0,82	0,249	229
9,0	0,91	0,278	209
10,5	1,0	0,305	194
12,0	1,09	0,331	181
13,5	1,17	0,356	171
15,0	1,25	0,379	162
16,5	1,32	0,403	155
18,0	1,4	0,425	148
19,5	1,47	0,447	142
21,0	1,54	0,469	137
22,5	1,61	0,490	132
24,0	1,68	0,511	128
25,5	1,74	0,531	124
27,0	1,81	0,551	121
28,5	1,87	0,571	118
30,0	1,94	0,590	115