

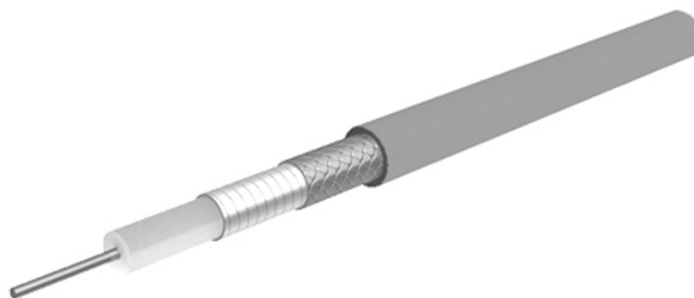
Flexible microwave cable

MULTIFLEX_141 Item: 22511964

Description

Multiflex: Flexible alternatives to semi-rigid microwave cables

RG402 dimension, 50 Ohm, 33 GHz, 165°C, ø4.14 mm, FEP jacket



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire	0.92 mm
Dielectric	PTFE (Polytetrafluoroethylene)		2.93 mm
Outer conductor	Copper, Silver plated	wrapped Foil, 100%	3.21 mm
Outer conductor	Multi-end: Copper - Tinned	Braid, 83 %	3.53 mm
Jacket	FEP (Fluorinated ethylene propylene)	RAL 5015 - bl	4.14 mm +/- 0.1

Print: HUBER+SUHNER MULTIFLEX 141 (PA no.)

Electrical Data

Impedance	50 Ω +/- 2
Operating Frequency	33 GHz
Capacitance	95 pF/m
Velocity of signal propagation	70.6 %
Signal delay	4.7 ns/m
Screening effectiveness	≥ 90 dB (up to 18 GHz)
Operating voltage	≤ 1.9 kV _{rms} (at sea level)
Test voltage	3.8 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight		4.5 kg/100 m
Min. bending radius	static	10 mm
	dynamic	40 mm

Environmental Data

Temperature range	-65 °C ... +165 °C
Installation temperature	-20 °C... +60 °C
Flame propagation test	IEC 60332-1, UL 1581 § 1080 (VW-1)
Halogen free	No
2011/65/EU (RoHS - including 2015/863 and 2017/2102)	compliant
1907/2006/EC (REACH)	compliant
2000/53/EC (ELV)	compliant
2012/19/EU (WEEE)	no special marking needed

Additional Information

Remarks

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

Suitable Connectors

Cable group Y17 3 mm / 50 Ohm

Flexible microwave cable

MULTIFLEX_141 Item: 22511964

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

Coefficients:

a = 0.3732

b = 0.0279

f_{max} = 33

P at 1GHz = 373

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 (W) sea level 40° C ambient temperature
1,65	0,53	0,160	290
3,3	0,77	0,235	205
4,95	0,97	0,295	168
6,6	1,14	0,348	145
8,25	1,3	0,397	130
9,9	1,45	0,442	119
11,55	1,59	0,485	110
13,2	1,72	0,526	103
14,85	1,85	0,565	97
16,5	1,98	0,602	92
18,15	2,1	0,639	88
19,8	2,21	0,675	84
21,45	2,33	0,709	81
23,1	2,44	0,743	78
24,75	2,55	0,776	75
26,4	2,65	0,809	73
28,05	2,76	0,841	70
29,7	2,86	0,872	68
31,35	2,96	0,903	67
33,0	3,06	0,934	65

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Coaxial Cables](#) category:

Click to view products by [Huber & Suhner](#) manufacturer:

Other Similar products are found below :

[89880-003-1000](#) [CY2389-000](#) [8221-010-U1000](#) [9116-010-U500](#) [1322R-010-1000](#) [1807A-B59-U1000](#) [2020K8421-9X-CS3417](#) [9251-010-1000](#) [9275-010-U1000](#) [935240-000](#) [980704-001](#) [CF2823-000](#) [33312-010-500](#) [CZ1589-000](#) [5022W0809-0CS3263](#) [10610-4-4](#) [EF8108-000](#) [1673B TIN100](#) [672525-001](#) [144517-000](#) [735A1-008-1000](#) [8212-010-U500](#) [480414-000](#) [7915A 009U1000](#) [5024A1311-0](#) [1281S5 010250](#) [1530A 010U1000](#) [9248 010U1000](#) [9244 0101000](#) [1694A 0081000](#) [1190A 0101000](#) [8241F J5C1000](#) [1674A TIN50](#) [7915A 0091000](#) [TRCH-50-2](#) [9066 0031000](#) [7805R 008100](#) [1674A TIN100](#) [9116SB 0101000](#) [9271 0061000](#) [1613A 0101000](#) [1807A B591000](#) [5339Q5 009U500](#) [539945 0091000](#) [9116R 0101000](#) [89207 010100](#) [9058 0101000](#) [8241A 0101000](#) [DA7805R 0101000](#) [C6424](#)