

Flexible RF cable

K_01152-16 Item: 85004838

Description

K: RF cables with PTFE/FEP/PFA dielectrics

50 Ohm, 3 GHz, 205°C, ø1 mm, PFA jacket



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Steel, Copper+Silver plated	Wire	0.18 mm
Dielectric	PFA (Perfluoroalkoxy)		0.48 mm
Outer conductor	Copper, Silver plated	Braid, 96.8%	0.84 mm
Jacket	PFA (Perfluoroalkoxy)	Nature	1 mm +/- 0.05

Print: (no print)

Electrical Data

Impedance	50 Ω +/- 5
Operating Frequency	3 GHz
Capacitance	96.6 pF/m
Velocity of signal propagation	69 %
Signal delay	4.83 ns/m
Screening effectiveness	≥ 40 dB (up to 3 GHz)
Operating voltage	≤ 0.25 kV _{rms} (at sea level)
Test voltage	1 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	0.33 kg/100 m
Min. bending radius	static 12 mm 20 mm

Environmental Data

Temperature range	-55 °C ... +205 °C
Installation temperature	-20 °C... +60 °C
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	U99 Customer Specific
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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 = 1.984

b = 0.066

 $f_{\max} = 3$

P at 1GHz = 15

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
0,15	0,78	0,237	39
0,3	1,11	0,337	27
0,45	1,36	0,415	22
0,6	1,58	0,480	19
0,75	1,77	0,539	17
0,9	1,94	0,592	16
1,05	2,1	0,641	15
1,2	2,25	0,687	14
1,35	2,39	0,730	13
1,5	2,53	0,771	12
1,65	2,66	0,810	12
1,8	2,78	0,847	11
1,95	2,9	0,884	11
2,1	3,01	0,919	10
2,25	3,12	0,952	10
2,4	3,23	0,985	10
2,55	3,34	1,017	9
2,7	3,44	1,048	9
2,85	3,54	1,078	9
3,0	3,63	1,108	9

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