Data Sheet

HUBER+SUHNER

Flexible RF cable
K_01152-07 Item: 22511192

Description

K: RF cables with PTFE/FEP/PFA dielectrics

50 Ohm, 1 GHz, 205°C, ø1.25 mm, PFA jacket

Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Strand-07	0.19 mm
Dielectric	PFA (Perfluoroalkoxy)		0.52 mm
Outer conductor	Copper, Silver plated	Braid, 87%	0.9 mm
Jacket	PFA (Perfluoroalkoxy)	RAL 9010 - wh	1.25 mm +/- 0.05

Print: (no print)

Electrical Data

Impedance		50 Ω +/- 5
Operating Frequency		1 GHz
Capacitance		96.6 pF/m
Velocity of signal propagation		69 %
Signal delay		4.83 ns/m
Screening effectiveness		≥ 40 dB (up to 1 GHz)
Operating voltage		≤ 0.4 kV_{rms} (at sea level)
Test voltage		0.8 kV_{rms} (50 Hz/1 min)

Mechanical Data

Weight		0.9 kg/100 m
Min. bending radius	static	6 mm
		12 mm
	dynamic	20 mm

Environmental Data

Temperature range	-80 °C ... +205 °C
Installation temperature	-20 °C... +60 °C
Flame propagation test	IEC 60332-3 (A), UL (horizontal flame test)
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	U0 1 mm / 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 = 2.21	b = 0.259	f_{max} = 1	P at 1GHz = 27

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
0,05	0,51	0,155	121
0,1	0,72	0,221	85
0,15	0,89	0,273	70
0,2	1,04	0,317	60
0,25	1,17	0,357	54
0,3	1,29	0,393	49
0,35	1,4	0,426	46
0,4	1,5	0,458	43
0,45	1,6	0,487	40
0,5	1,69	0,516	38
0,55	1,78	0,543	36
0,6	1,87	0,569	35
0,65	1,95	0,594	33
0,7	2,03	0,619	32
0,75	2,11	0,643	31
0,8	2,18	0,666	30
0,85	2,26	0,688	29
0,9	2,33	0,710	28
0,95	2,4	0,732	28
1,0	2,47	0,753	27