

Flexible RF cable K_01152-07

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
	repeated	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)	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 K_01152-07

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

Coefficients:

a = 2.21

b = 0.259

f_{max} = 1

P at 1GHz = 27

Frequency (GHz)	Nom. attenuation (dB / m)	Nom. attenuation (dB / ft)	Max. CW power (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