Data Sheet

Coaxial Cable
K_01152-07

Description

PFA - 50 Ohm - single screen

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
Insulation resistance	≥ 1 x 10^8 MΩm
Min. screening effectiveness	≥ 40 dB (up to 1 GHz)
Max. 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 (for ≤ 50 bendings)	12 mm
	dynamic	20 mm

Environmental Data

Temperature range	-80 °C... +205 °C
Installation temperature	-20 °C... +60 °C
Flammability	IEC 60332-3 (A), UL (horizontal flame test)
2011/65/EU (RoHS)	compliant

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*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 (GHz)	Nom. attenuation (dB / m) sea level 25° C ambient temperature	Nom. attenuation (dB / ft) sea level 25° C ambient temperature	Max. CW power (watt) 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