Data Sheet

Flexible RF cable
K_01252_D

Description

K: RF cables with PTFE/FEP/PFA dielectrics

RG178D/RD178, 50 Ohm, 6 GHz, 200°C, ø2.4 mm, FEP jacket



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Steel, Copper+Silver plated	Strand-07	0.31 mm
Dielectric	PTFE (Polytetrafluoroethylene)		0.83 mm
Outer conductor	Copper, Silver plated	Braid, 95%	1.33 mm
Outer conductor	Copper, Silver plated	Braid, 92 %	1.83 mm
Jacket	FEP (Fluorinated ethylene propylene)	RAL 8015 - br	2.4 mm +/- 0.1

Print: HUBER+SUHNER K 01252 D 50 Ohm (PA no.)

Electrical Data

Impedance		50 Ω +/- 2
Operating Frequency		6 GHz
Capacitance		97 pF/m
Velocity of signal propagation		69 %
Signal delay		4.84 ns/m
Screening effectiveness		≥ 80 dB (up to 6 GHz)
Operating voltage		≤ 0.5 kV_{rms} (at sea level)
Test voltage		1 kV_{rms} (50 Hz/1 min)

Mechanical Data

Weight		1.5 kg/100 m
Min. bending radius	static	15 mm
	repeated	24 mm
	dynamic	36 mm

Environmental Data

Temperature range	-65 °C ... +200 °C
Installation temperature	-20 °C... +60 °C
Flame propagation test	IEC 60332-3,
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_01252_D

Remarks

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

Suitable Connectors

Cable group	X1 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 = 1.3	b = 0.3327	f_{max} = 6	P at 1GHz = 111

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
0,3	0,81	0,247	203
0,6	1,21	0,368	143
0,9	1,53	0,467	117
1,2	1,82	0,556	101
1,5	2,09	0,637	91
1,8	2,34	0,714	83
2,1	2,58	0,787	77
2,4	2,81	0,857	72
2,7	3,03	0,925	68
3,0	3,25	0,990	64
3,3	3,46	1,054	61
3,6	3,66	1,117	59
3,9	3,86	1,178	56
4,2	4,06	1,238	54
4,5	4,25	1,297	52
4,8	4,45	1,355	51
5,1	4,63	1,412	49
5,4	4,82	1,468	48
5,7	5,0	1,524	46
6,0	5,18	1,579	45

Waiver: Fact and figures herein are for information only and do not represent any warranty of any kind.