

Flexible RF cable K_02252_D-60

Description

K: RF cables with PTFE/FEP/PFA dielectrics

RG316D/RD316 alternative, 50 Ohm, 6 GHz, 200°C, ø3 mm, FEP jacket, UL AWM style 1354



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Strand-07	0.54 mm
Dielectric	FEP (Fluorinated ethylene propylene)		1.54 mm
Outer conductor	Copper, Silver plated	Braid, 96%	2 mm
Outer conductor	Copper, Silver plated	Braid, 91 %	2.5 mm
Jacket	FEP (Fluorinated ethylene propylene)	RAL 8015 - br	3 mm +/- 0.1

Print: HUBER+SUHNER K 02252 D-60 50 Ohm (UL logo) AWM Style 1354 (production order number)

Electrical Data

Impedance	50 Ω +/- 2
Operating Frequency	6 GHz
Capacitance	97 pF/m
Velocity of signal propagation	69 %
Signal delay	4.83 ns/m
Screening effectiveness	≥ 80 dB (up to 6 GHz)
Operating voltage	≤ 1.45 kV _{rms} (at sea level)
Test voltage	2.9 kV _{rms} (50 Hz/1 min)
Voltage Rating UL	30 V

Mechanical Data

Weight		2.4 kg/100 m
Min. bending radius	static	18 mm
		30 mm
	dynamic	45 mm

Environmental Data

Temperature range	-65 °C ... +200 °C
Temperature rating UL	80 °C
Installation temperature	-20 °C... +60 °C
Flame propagation test	IEC 60332-3, 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

Ordering Information

Order as K_02252_D-60

Remarks

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

Suitable Connectors

Cable group U4 2 mm / 50 Ohm

Flexible RF cable

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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 = 0.7984

b = 0.2088

f_{max} = 6

P at 1GHz = 154

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	0,5	0,152	281
0,6	0,74	0,227	199
0,9	0,95	0,288	162
1,2	1,13	0,343	141
1,5	1,29	0,393	126
1,8	1,45	0,441	115
2,1	1,6	0,486	106
2,4	1,74	0,530	99
2,7	1,88	0,572	94
3,0	2,01	0,612	89
3,3	2,14	0,652	85
3,6	2,27	0,691	81
3,9	2,39	0,729	78
4,2	2,51	0,766	75
4,5	2,63	0,803	73
4,8	2,75	0,839	70
5,1	2,87	0,874	68
5,4	2,98	0,909	66
5,7	3,1	0,944	65
6,0	3,21	0,978	63