

## Flexible RF cable K\_02252\_D-60

### Description

K: RF cables with PTFE/FEP/PFA dielectrics

RG316D/RD316 alternative, 50 Ohm, 6 GHz, 165°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 (PA no.)

#### 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
Insulation resistance	≥ 1 x 10 <sup>8</sup> MΩm
Min. screening effectiveness	≥ 80 dB (up to 6 GHz)
Max. operating voltage	≤ 1.45 kV <sub>rms</sub> (at sea level)
Test voltage	2.9 kV <sub>rms</sub> (50 Hz/1 min)
Voltage Rating UL	30 V

#### Mechanical Data

Weight	2.4 kg/100 m
Min. bending radius	static repeated (for ≤ 50 bendings) dynamic
	18 mm 30 mm 45 mm

#### Environmental Data

Temperature range	-65 °C... +165 °C
Temperature Rating UL	80 °C
Installation temperature	-20 °C... +60 °C
Flammability	IEC 60332-3, UL (horizontal flame test)
2011/65/EU (RoHS)	compliant

### 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

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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 (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
0,3	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