

Flexible RF cable S_02132_D-60

Description

S: Low loss RF cables with foam PE dielectrics

50 Ohm, 6 GHz, 85°C, ø4.8 mm, PVC jacket, UL AWM style 1354



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire	0.88 mm
Dielectric	SPE (Foamed Polyethylene)		2.42 mm
Outer conductor	Copper, Silver plated	Braid, 92%	2.95 mm
Outer conductoe	Copper, Silver plated	Braid, 96 %	3.6 mm
Jacket	PVC (Polyvinyl chloride)	RAL 9005 - bk	4.8 mm +/- 0.1

Print: HUBER+SUHNER S 02132 D-60 50 Ohm (UL logo) AWM Style 1354 (PA no.)

Electrical Data

Impedance	50 Ω +/- 2
Operating Frequency	6 GHz
Capacitance	82 pF/m
Velocity of signal propagation	82 %
Signal delay	4.01 ns/m
Insulation resistance	≥ 1 x 10 ⁸ MΩm
Min. screening effectiveness	≥ 75 dB (up to 6 GHz)
Max. operating voltage	≤ 0.35 kV _{rms} (at sea level)
Test voltage	0.7 kV _{rms} (50 Hz/1 min)
Voltage Rating UL	30 V

Mechanical Data

Weight	4.5 kg/100 m
Min. bending radius	static 25 mm
	repeated (for ≤ 50 bendings) 48 mm

Environmental Data

Temperature range	-25 °C... +85 °C
Temperature Rating UL	60 °C
Installation temperature	-20 °C... +60 °C
Flammability	UL 1581 § 1090,
2011/65/EU (RoHS)	compliant

Additional Information

Ordering Information

Order as	S_02132_D-60
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Remarks

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

Suitable Connectors

Cable group	U99 Customer Specific
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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 = 0.4273

b = 0.0718

f_{max} = 6

P at 1GHz = 98

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	0,26	0,078	179
0,6	0,37	0,114	127
0,9	0,47	0,143	103
1,2	0,55	0,169	89
1,5	0,63	0,192	80
1,8	0,7	0,214	73
2,1	0,77	0,235	68
2,4	0,83	0,254	63
2,7	0,9	0,273	60
3,0	0,96	0,291	57
3,3	1,01	0,309	54
3,6	1,07	0,326	52
3,9	1,12	0,343	50
4,2	1,18	0,359	48
4,5	1,23	0,375	46
4,8	1,28	0,390	45
5,1	1,33	0,406	43
5,4	1,38	0,421	42
5,7	1,43	0,436	41
6,0	1,48	0,450	40