

Flexible RF cable G_02333-60

Description

G: RF cables with PE dielectrics

Triax, 75 Ohm, 1 GHz, 85°C, ø4.3 mm, PVC jacket, UL AWM style 1354



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Steel, Copper plated	Wire	0.24 mm
Dielectric	PE (Polyethylene)		1.5 mm
Outer conductor	Copper	Braid, 96%	2 mm
Jacket	PVC (Polyvinyl chloride)	RAL 9005 - bk	2.8 mm +/- 0.1
2 nd Screen	Copper	Braid, 92 %	3.3 mm
Outer Jacket	PVC (Polyvinyl chloride)	RAL 9005 - bk	4.3 mm +/- 0.15

Print: HUBER+SUHNER G 02333-60 75 Ohm (UL logo) AWM Style 1354 (PA no.)

Electrical Data

Impedance	75 Ω +/- 1.5
Operating Frequency	1 GHz
Capacitance	68 pF/m
Velocity of signal propagation	66 %
Signal delay	5.03 ns/m
Insulation resistance	≥ 1 x 10 ⁸ MΩm
Min. screening effectiveness	≥ 50 dB (up to 1 GHz)
Max. operating voltage	≤ 1 kV _{rms} (at sea level)
Test voltage	2 kV _{rms} (50 Hz/1 min)
Voltage Rating UL	30 V

Mechanical Data

Weight	3.1 kg/100 m
Min. bending radius	static repeated (for ≤ 50 bendings)
	25 mm 43 mm

Environmental Data

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

Additional Information

Ordering Information

Order as	G_02333-60
----------	------------

Remarks

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

Suitable Connectors

Cable group	X13 2 mm / 75 Ohm
-------------	-------------------

Flexible RF cable G_02333-60

Matrix typical Attenuation [formula: $(a \cdot f^{0.5} + b \cdot f)$] and maximum Power CW [formula: $(p/f^{0.5})$]

Coefficients:

a = 0.8588

b = 0.0352

f_{max} = 1

P at 1GHz = 38

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	0,19	0,059	170
0,1	0,28	0,084	120
0,15	0,34	0,103	98
0,2	0,39	0,119	85
0,25	0,44	0,134	76
0,3	0,48	0,147	69
0,35	0,52	0,159	64
0,4	0,56	0,170	60
0,45	0,59	0,180	57
0,5	0,62	0,190	54
0,55	0,66	0,200	51
0,6	0,69	0,209	49
0,65	0,72	0,218	47
0,7	0,74	0,227	45
0,75	0,77	0,235	44
0,8	0,8	0,243	42
0,85	0,82	0,250	41
0,9	0,85	0,258	40
0,95	0,87	0,265	39
1,0	0,89	0,272	38