

Coaxial Cable G_02333-60

Description

Triax - PE - 75 Ohm (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

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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 25 mm
	repeated (for ≤ 50 bendings) 43 mm

Environmental Data

Temperature range	-25 °C... +85 °C
Temperature Rating UL	60 °C
Installation temperature	-20 °C... +60 °C
2011/95/EC (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

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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 = 0.9679

b = 0.15

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	0.22	0.068	170
0.1	0.32	0.098	120
0.15	0.4	0.121	98
0.2	0.46	0.141	85
0.25	0.52	0.159	76
0.3	0.58	0.175	69
0.35	0.63	0.191	64
0.4	0.67	0.205	60
0.45	0.72	0.218	57
0.5	0.76	0.231	54
0.55	0.8	0.244	51
0.6	0.84	0.256	49
0.65	0.88	0.268	47
0.7	0.91	0.279	45
0.75	0.95	0.290	44
0.8	0.99	0.300	42
0.85	1.02	0.311	41
0.9	1.05	0.321	40
0.95	1.09	0.331	39
1.0	1.12	0.341	38