

Coaxial Cable G_03362-01

Description

Triax - PE - 50 Ohm



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Tin plated	Strand-19	0.9 mm
Dielectric	PE (Polyethylene)		2.95 mm
Outer conductor	Copper, Tin plated	Braid, 96%	3.6 mm
Jacket	LSFH (modified polyethylene)	RAL 9005 - bk	4.95 mm +/- 0.15
2 nd Screen	Copper, Tin plated	Braid, 96 %	5.6 mm
Outer Jacket	LSFH (modified polyethylene)	RAL 9005 - bk	7.2 mm +/- 0.2

Print: HUBER+SUHNER G 03362-01 50 Ohm (PA No.)

Electrical Data

Impedance	50 Ω +/- 2
Operating Frequency	2 GHz
Capacitance	101 pF/m
Velocity of signal propagation	66 %
Signal delay	5 ns/m
Insulation resistance	≥ 1 x 10 ⁸ MQm
Max. operating voltage	≤ 2.5 kV _{rms} (at sea level)
Test voltage	5 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	9.7 kg/100 m
Min. bending radius	static repeated (for ≤ 50 bendings) dynamic
	36 mm 75 mm 110 mm

Environmental Data

Temperature range	-40 °C... +85 °C
Installation temperature	-20 °C... +60 °C
Halogen test	IEC 60754
2011/95/EC (RoHS)	compliant

Additional Information

Ordering Information

Order as G_03362-01

Remarks

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

Suitable Connectors

Cable group W2 3 mm / 50+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 = 0.3455

b = 0.2373

$f_{max} = 2$

P at 1GHz = 100

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
0,1	0,13	0,041	316
0,2	0,2	0,062	224
0,3	0,26	0,079	183
0,4	0,31	0,096	158
0,5	0,36	0,111	141
0,6	0,41	0,125	129
0,7	0,46	0,139	120
0,8	0,5	0,152	112
0,9	0,54	0,165	105
1,0	0,58	0,178	100
1,1	0,62	0,190	95
1,2	0,66	0,202	91
1,3	0,7	0,214	88
1,4	0,74	0,226	85
1,5	0,78	0,237	82
1,6	0,82	0,249	79
1,7	0,85	0,260	77
1,8	0,89	0,271	75
1,9	0,93	0,283	73
2,0	0,96	0,294	71