

## Coaxial Cable G\_03332

### Description

Triax - PE - 50 Ohm



### Technical Data

#### Construction

	Material	Detail	Diameter
Centre conductor	Copper	Strand-07	0.95 mm
Dielectric	PE (Polyethylene)		2.95 mm
Outer conductor	Copper	Braid, 95%	3.6 mm
Jacket	PVC (Polyvinyl chloride)	RAL 9005 - bk	5 mm +/- 0.15

#### Electrical Data

Impedance	50 Ω +/- 2
Operating Frequency	2 GHz
Capacitance	100.7 pF/m
Velocity of signal propagation	66 %
Signal delay	5.02 ns/m
Insulation resistance	≥ 1 x 10 <sup>8</sup> MΩm
Min. screening effectiveness	≥ 40 dB (up to 2 GHz)
Max. operating voltage	≤ 2.5 kV <sub>rms</sub> (at sea level)
Test voltage	5 kV <sub>rms</sub> (50 Hz/1 min)

#### Mechanical Data

Weight		9 kg/100 m
Min. bending radius	static	36 mm
	repeated (for ≤ bendings)	75 mm
	dynamic	146 mm

#### Environmental Data

Temperature range	-25 °C... +85 °C
Installation temperature	-20 °C... +60 °C
Halogen test	n/a
2011/65/EU (RoHS)	compliant

### Additional Information

#### Ordering Information

Order as G\_03332

#### 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 = 0.4027

b = 0.08

f<sub>max</sub> = 2

P at 1GHz = 75

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	0.14	0.041	237
0.2	0.2	0.060	168
0.3	0.24	0.075	137
0.4	0.29	0.087	119
0.5	0.32	0.099	106
0.6	0.36	0.110	97
0.7	0.39	0.120	90
0.8	0.42	0.129	84
0.9	0.45	0.138	79
1.0	0.48	0.147	75
1.1	0.51	0.156	72
1.2	0.54	0.164	68
1.3	0.56	0.172	66
1.4	0.59	0.179	63
1.5	0.61	0.187	61
1.6	0.64	0.194	59
1.7	0.66	0.201	58
1.8	0.68	0.209	56
1.9	0.71	0.216	54
2.0	0.73	0.222	53

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