

Flexible triaxial cable G_03362-01

Description

G: RF cables with PE dielectrics

Triax (RG58 alternative core), 50 Ohm, 2 GHz, 85°C, ø7.2 mm, LSFH jacket



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 (production order number)

Electrical Data

| | |
|--------------------------------|--|
| Impedance | 50 Ω +/- 2 |
| Operating Frequency | 2 GHz |
| Capacitance | 101 pF/m |
| Velocity of signal propagation | 66 % |
| Signal delay | 5 ns/m |
| 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 |
| | 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 |
| Halogen free | Yes |
| 2011/65/EU (RoHS - including 2015/863 and 2017/2102) | compliant |
| 1907/2006/EC (REACH) | compliant |
| 2000/53/EC (ELV) | compliant |
| 2012/19/EU (WEEE) | no special marking needed |

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 (W) 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 |