

Coaxial Cable GX_03272_D-06

Description

PE cross-linked - 50 Ohm - double screen



Technical Data

Construction

| | Material | Detail | Diameter |
|------------------|---------------------------------|---------------|----------------|
| Centre conductor | Copper, Silver plated | Wire | 0.88 mm |
| Dielectric | PEX (Polyethylene cross-linked) | | 2.95 mm |
| Outer conductor | Copper, Silver plated | Braid, 96% | 3.6 mm |
| Outer conductor | Copper, Silver plated | Braid, 94 % | 4.2 mm |
| Jacket | RADOX | RAL 9005 - bk | 5.4 mm +/- 0.1 |

Print: HUBER+SUHNER GX 03272 D-06 50 Ohm (PA no.)

Electrical Data

| | |
|--------------------------------|--|
| Impedance | 50 Ω +/- 2 |
| Operating Frequency | 6 GHz |
| Capacitance | 101 pF/m |
| Velocity of signal propagation | 66 % |
| Signal delay | 5.03 ns/m |
| Insulation resistance | ≥ 1 x 10 ⁸ MQm |
| Min. screening effectiveness | ≥ 80 dB (up to 6 GHz) |
| Max. operating voltage | ≤ 2.5 kV _{rms} (at sea level) |
| Test voltage | 5 kV _{rms} (50 Hz/1 min) |

Mechanical Data

| | |
|---------------------|--|
| Weight | 5.5 kg/100 m |
| Min. bending radius | static repeated (for ≤ 50 bendings) |
| | 30 mm 54 mm |

Environmental Data

| | |
|--------------------------|-------------------|
| Temperature range | -40 °C... +105 °C |
| Installation temperature | -20 °C... +60 °C |
| Flammability | IEC 60332-1, |
| Halogen test | IEC 60754 |
| 2011/65/EU (RoHS) | compliant |

Additional Information

Ordering Information

Order as GX_03272_D-06

Remarks

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

Suitable Connectors

Cable group U9 3 mm / 50 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 = 0.3952

b = 0.0779

$f_{max} = 6$

P at 1GHz = 205

| 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 |
|--------------------|---|--|--|
| 0,3 | 0,24 | 0,073 | 374 |
| 0,6 | 0,35 | 0,108 | 265 |
| 0,9 | 0,45 | 0,136 | 216 |
| 1,2 | 0,53 | 0,160 | 187 |
| 1,5 | 0,6 | 0,183 | 167 |
| 1,8 | 0,67 | 0,204 | 153 |
| 2,1 | 0,74 | 0,224 | 141 |
| 2,4 | 0,8 | 0,244 | 132 |
| 2,7 | 0,86 | 0,262 | 125 |
| 3,0 | 0,92 | 0,280 | 118 |
| 3,3 | 0,97 | 0,297 | 113 |
| 3,6 | 1,03 | 0,314 | 108 |
| 3,9 | 1,08 | 0,330 | 104 |
| 4,2 | 1,14 | 0,347 | 100 |
| 4,5 | 1,19 | 0,362 | 97 |
| 4,8 | 1,24 | 0,378 | 94 |
| 5,1 | 1,29 | 0,393 | 91 |
| 5,4 | 1,34 | 0,408 | 88 |
| 5,7 | 1,39 | 0,423 | 86 |
| 6,0 | 1,44 | 0,438 | 84 |