

Coaxial Cable G_03262_D-01

Description

PE-50 Ohm - double screen



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, 94% | 3.6 mm |
| Outer conductor | Copper, Tin plated | Braid, 93 % | 4.25 mm |
| Jacket | LSFH (modified polyethylene) | RAL 9005 - bk | 5.4 mm +/- 0.1 |

Print: HUBER+SUHNER G 03262 D-01 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 MΩm |
| Min. screening effectiveness | ≥ 73 dB (up to 1 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) |
| | 27 mm 54 mm |

Environmental Data

| | |
|--------------------------|------------------|
| Temperature range | -40 °C... +85 °C |
| Installation temperature | -20 °C... +60 °C |
| Flammability | IEC 60332-1, , |
| Halogen test | IEC 60754 |
| 2011/95/EC (RoHS) | compliant |

Additional Information

Ordering Information

Order as G_03262_D-01

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 = 0.4431

b = 0.0815

f_{max} = 6

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 |
|--------------------|---|--|--|
| 0,3 | 0,27 | 0,081 | 183 |
| 0,6 | 0,39 | 0,120 | 129 |
| 0,9 | 0,49 | 0,150 | 105 |
| 1,2 | 0,58 | 0,178 | 91 |
| 1,5 | 0,66 | 0,203 | 82 |
| 1,8 | 0,74 | 0,226 | 75 |
| 2,1 | 0,81 | 0,248 | 69 |
| 2,4 | 0,88 | 0,269 | 65 |
| 2,7 | 0,95 | 0,289 | 61 |
| 3,0 | 1,01 | 0,308 | 58 |
| 3,3 | 1,07 | 0,327 | 55 |
| 3,6 | 1,13 | 0,346 | 53 |
| 3,9 | 1,19 | 0,364 | 51 |
| 4,2 | 1,25 | 0,381 | 49 |
| 4,5 | 1,31 | 0,398 | 47 |
| 4,8 | 1,36 | 0,415 | 46 |
| 5,1 | 1,42 | 0,432 | 44 |
| 5,4 | 1,47 | 0,448 | 43 |
| 5,7 | 1,52 | 0,464 | 42 |
| 6,0 | 1,57 | 0,480 | 41 |