

Flexible RF cable

G_02212_D-02 Item: 22511668

Description

G: RF cables with PE dielectrics

RG174D/RD174 alternative, 50 Ohm, 6 GHz, 85°C, ø3.1 mm, PUR jacket



Technical Data

Construction

| | Material | Detail | Diameter |
|------------------|-----------------------------|---------------|----------------|
| Centre conductor | Copper, Silver plated | Strand-07 | 0.48 mm |
| Dielectric | PE (Polyethylene) | | 1.5 mm |
| Outer conductor | Copper, Silver plated | Braid, 95% | 2 mm |
| Outer conductor | Steel, Copper+Silver plated | Braid, 93 % | 2.5 mm |
| Jacket | PUR (Polyurethane) | RAL 2001 - or | 3.1 mm +/- 0.1 |

Print: HUBER+SUHNER G 02212 D-02 50 Ohm (production order number)

Electrical Data

| | |
|--------------------------------|--|
| Impedance | 50 Ω +/- 2 |
| Operating Frequency | 6 GHz |
| Capacitance | 100 pF/m |
| Velocity of signal propagation | 66 % |
| Signal delay | 5.03 ns/m |
| Screening effectiveness | ≥ 80 dB (up to 1 GHz) |
| Operating voltage | ≤ 1.5 kV _{rms} (at sea level) |
| Test voltage | 3 kV _{rms} (50 Hz/1 min) |

Mechanical Data

| | |
|---------------------|--------------------------|
| Weight | 1.8 kg/100 m |
| Min. bending radius | static 15 mm 30 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 |

Additional Information

Remarks

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

Suitable Connectors

| | |
|-------------|------------------|
| Cable group | U4 2 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 = 0.95

b = 0.125

$f_{\max} = 6$

P at 1GHz = 37

| 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 |
|--------------------|---|--|---|
| 0,3 | 0,56 | 0,170 | 68 |
| 0,6 | 0,81 | 0,247 | 48 |
| 0,9 | 1,01 | 0,309 | 39 |
| 1,2 | 1,19 | 0,363 | 34 |
| 1,5 | 1,35 | 0,412 | 30 |
| 1,8 | 1,5 | 0,457 | 28 |
| 2,1 | 1,64 | 0,500 | 26 |
| 2,4 | 1,77 | 0,540 | 24 |
| 2,7 | 1,9 | 0,579 | 23 |
| 3,0 | 2,02 | 0,616 | 21 |
| 3,3 | 2,14 | 0,652 | 20 |
| 3,6 | 2,25 | 0,687 | 20 |
| 3,9 | 2,36 | 0,720 | 19 |
| 4,2 | 2,47 | 0,753 | 18 |
| 4,5 | 2,58 | 0,786 | 17 |
| 4,8 | 2,68 | 0,817 | 17 |
| 5,1 | 2,78 | 0,848 | 16 |
| 5,4 | 2,88 | 0,879 | 16 |
| 5,7 | 2,98 | 0,908 | 15 |
| 6,0 | 3,08 | 0,938 | 15 |

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