

Coaxial Cable G_04273-12

Description

PE-75 Ohm - single screen - precision type



Technical Data

Construction

| | Material | Detail | Diameter |
|------------------|-------------------|---------------|-----------------|
| Centre conductor | Copper | Strand-07 | 0.64 mm |
| Dielectric | PE (Polyethylene) | | 3.75 mm |
| Outer conductor | Copper | Braid, 92% | 4.5 mm |
| Jacket | RADOX | RAL 9005 - bk | 6.1 mm +/- 0.15 |

Print: HUBER+SUHNER G 04273-12 75 OHM (PA no.)

Electrical Data

| | |
|--------------------------------|--------------------------------------|
| Impedance | 75 Ω +/- 1.5 |
| Operating Frequency | 1 GHz |
| Capacitance | 67 pF/m |
| Velocity of signal propagation | 66 % |
| Signal delay | 5.07 ns/m |
| Insulation resistance | ≥ 1 x 10 ⁸ MQm |
| Min. screening effectiveness | ≥ 40 dB (up to 3 GHz) |
| Max. operating voltage | ≤ 3 kV _{rms} (at sea level) |
| Test voltage | 6 kV _{rms} (50 Hz/1 min) |

Mechanical Data

| | | |
|---------------------|---------|--------------|
| Weight | | 5.4 kg/100 m |
| Min. bending radius | static | 35 mm |
| | dynamic | 91 mm |

Environmental Data

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

Additional Information

Ordering Information

Order as G_04273-12

Remarks

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

Suitable Connectors

Cable group U16 4 mm / 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 = 0.4

b = 0.0388

$f_{max} = 1$

P at 1GHz = 134

| 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 |
|--------------------|---|--|--|
| 0.05 | 0.09 | 0.028 | 599 |
| 0.1 | 0.13 | 0.040 | 424 |
| 0.15 | 0.16 | 0.049 | 346 |
| 0.2 | 0.19 | 0.057 | 300 |
| 0.25 | 0.21 | 0.064 | 268 |
| 0.3 | 0.23 | 0.070 | 245 |
| 0.35 | 0.25 | 0.076 | 227 |
| 0.4 | 0.27 | 0.082 | 212 |
| 0.45 | 0.29 | 0.087 | 200 |
| 0.5 | 0.3 | 0.092 | 190 |
| 0.55 | 0.32 | 0.097 | 181 |
| 0.6 | 0.33 | 0.102 | 173 |
| 0.65 | 0.35 | 0.106 | 166 |
| 0.7 | 0.36 | 0.110 | 160 |
| 0.75 | 0.38 | 0.114 | 155 |
| 0.8 | 0.39 | 0.119 | 150 |
| 0.85 | 0.4 | 0.122 | 145 |
| 0.9 | 0.41 | 0.126 | 141 |
| 0.95 | 0.43 | 0.130 | 137 |
| 1.0 | 0.44 | 0.134 | 134 |