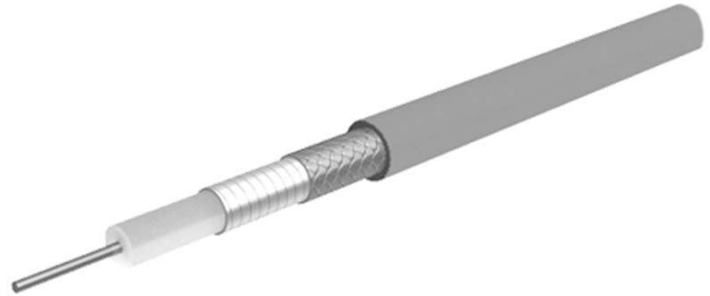


Coaxial Cable MULTIFLEX_86

苏州启道 — 中国区优势专业供应商
 sales@qiidao.com

Description

The flexible microwave cable



Technical Data

Construction

| | Material | Detail | Diameter |
|------------------|--------------------------------------|--------------------|-----------------|
| Centre conductor | Copper, Silver plated | Wire | 0.47 mm |
| Dielectric | PTFE (Polytetrafluoroethylene) | | 1.48 mm |
| Outer conductor | Copper, Silver plated | wrapped Foil, 100% | 1.71 mm |
| Outer conductor | Multi-end: Copper - Tinned | Braid, 99.4 % | 2.11 mm |
| Jacket | FEP (Fluorinated ethylene propylene) | RAL 5015 - bl | 2.65 mm +/- 0.1 |

Print: HUBER+SUHNER MULTIFLEX 86 (PA no.)

Electrical Data

| | |
|--------------------------------|----------------------------------------|
| Impedance | 50 Ω +/- 2 |
| Operating Frequency | 40 GHz |
| Capacitance | 95 pF/m |
| Velocity of signal propagation | 70.6 % |
| Signal delay | 4.72 ns/m |
| Insulation resistance | ≥ 1 x 10 ⁸ MQm |
| Min. screening effectiveness | ≥ 90 dB (up to 18 GHz) |
| Max. operating voltage | ≤ 1.5 kV _{rms} (at sea level) |
| Test voltage | 3.5 kV _{rms} (50 Hz/1 min) |

Mechanical Data

| | |
|---------------------|------------------------------------|
| Weight | 2.1 kg/100 m |
| Min. bending radius | static 6 mm dynamic 20 mm |

Environmental Data

| | |
|-----------------------------------|-------------------------------------------------|
| Temperature range | -65 °C... +165 °C |
| Installation temperature | -20 °C... +60 °C |
| Flammability 2011/65/EU (RoHS) | IEC 60332-1, UL 1581 § 1080 (VW-1) compliant |

Additional Information

Ordering Information

Order as MULTIFLEX_86

Remarks

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

Suitable Connectors

Cable group Y11 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 = 0.71702

b = 0.02892

f_{max} = 40

P at 1GHz = 140

| 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 |
|--------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------|
| 2,0 | 1,07 | 0,327 | 99 |
| 4,0 | 1,55 | 0,472 | 70 |
| 6,0 | 1,93 | 0,588 | 57 |
| 8,0 | 2,26 | 0,689 | 49 |
| 10,0 | 2,56 | 0,779 | 44 |
| 12,0 | 2,83 | 0,863 | 40 |
| 14,0 | 3,09 | 0,941 | 37 |
| 16,0 | 3,33 | 1,015 | 35 |
| 18,0 | 3,56 | 1,086 | 33 |
| 20,0 | 3,79 | 1,154 | 31 |
| 22,0 | 4,0 | 1,219 | 30 |
| 24,0 | 4,21 | 1,282 | 29 |
| 26,0 | 4,41 | 1,343 | 27 |
| 28,0 | 4,6 | 1,403 | 26 |
| 30,0 | 4,79 | 1,461 | 26 |
| 32,0 | 4,98 | 1,518 | 25 |
| 34,0 | 5,16 | 1,574 | 24 |
| 36,0 | 5,34 | 1,629 | 23 |
| 38,0 | 5,52 | 1,682 | 23 |
| 40,0 | 5,69 | 1,735 | 22 |