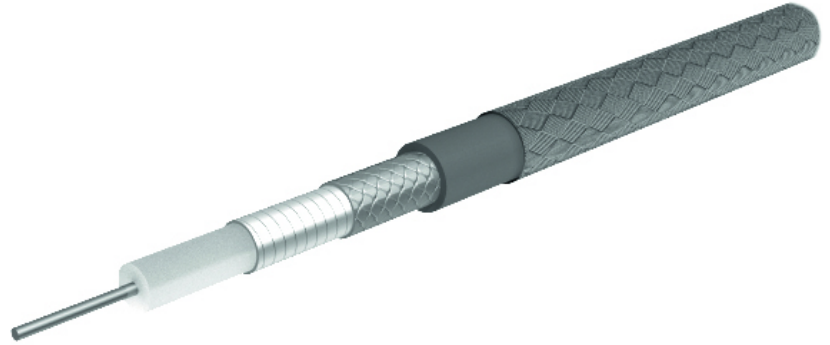


High-flexible, 50Ohm, 26.5GHz, 165°C, ø6.1 mm, Aramid jacket

SUCOFLEX_126_D

Properties

- Applicable up to 26.5 GHz
- Excellent insertion and return loss
- Extremely reliable and robust
- A wide range of cables, connectors and armours
- MIL qualified



| Construction | | | |
|------------------|--------------------------------------|--------------------|----------|
| Component | Material | Detail | Diameter |
| Centre conductor | Copper, Silver plated | Strand, Low-loss | |
| Dielectric | PTFE (Polytetrafluoroethylene) | | |
| Outer conductor | Copper, Silver plated | Wrapped foil, 100% | |
| Outer conductor | Copper, Silver plated | Braid | |
| Jacket | FEP (Fluorinated ethylene propylene) | | 5.5mm |
| Armour | PPTA (Aramid) | RAL 9005 - bk | 6.1mm |

| Electrical data | |
|----------------------------------|--------------------------------------|
| Impedance | 50 Ω |
| Operating frequency | ≤ 26.5 GHz |
| Capacitance | 87 pF |
| Velocity of signal propagation | 77 % |
| Signal delay | 4.3 ns/m |
| Screening effectiveness | 90 dB at frequency 0.1 GHz ... 18GHz |
| Insulation resistance | 100000000 MΩ*m |
| Operating Voltage (at sea level) | ≤ 2.6 kV |

| Mechanical data | |
|------------------------|----------------|
| Weight | approx. 96 g/m |
| Static bending radius | ≥ 20 mm |
| Dynamic bending radius | < 30 mm |

| Environmental data | |
|-----------------------|-------------------|
| Operation temperature | -55 °C ... 165°C |
| Fire characteristics | contains halogene |

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Additional Information

For details contact your nearest HUBER+SUHNER partner

Suitable connectors

Cable group U98

Ordering information

| Item number | Item description | Available as assembly only |
|-------------|------------------|----------------------------|
| 85088450 | SUCOFLEX_126_D | Yes |

Power MatrixCalculation: typical Attenuation [formula: $(a \cdot f^{0.5} + b \cdot f)$] and maximum Power CW [formula: $(p/f^{0.5})$]

| | | | |
|-------------------------|---------------|-------------------------|---------------|
| a coefficient typical = | 0.2291 | b coefficient typical = | 0.0071 |
| fmax = | 26.5 | P at 1 GHz = | 793.0 |

| Frequency GHz | Nom. attenuation (dB/m) | Nom. attenuation Max. (dB/ft) | CW power (W) |
|------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| | sea level 25°C ambient temperature | sea level 25°C ambient temperature | sea level 40°C ambient temperature |
| 0.20 | 0.104 | 0.032 | 1773 |
| 0.40 | 0.148 | 0.045 | 1254 |
| 0.60 | 0.182 | 0.055 | 1024 |
| 0.80 | 0.211 | 0.064 | 887 |
| 1.00 | 0.236 | 0.072 | 793 |
| 1.20 | 0.259 | 0.079 | 724 |
| 1.40 | 0.281 | 0.086 | 670 |
| 1.60 | 0.301 | 0.092 | 627 |
| 1.80 | 0.320 | 0.098 | 591 |
| 2.00 | 0.338 | 0.103 | 561 |
| 4.00 | 0.487 | 0.148 | 396 |
| 6.00 | 0.604 | 0.184 | 324 |
| 8.00 | 0.705 | 0.215 | 280 |
| 10.00 | 0.795 | 0.242 | 251 |
| 20.00 | 1.167 | 0.356 | 177 |
| 26.50 | 1.368 | 0.417 | 154 |

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