

## Coaxial Cable SUCOFORM\_86\_FEP

苏州启道 — 中国区优势专业供应商  
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### Description

SUCOFORM, the handformable microwave cable with protective jacket



### Technical Data

#### Construction

|                  | Material                             | Detail                 | Diameter       |
|------------------|--------------------------------------|------------------------|----------------|
| Centre conductor | Steel, Copper+Silver plated          | Wire                   | 0.53 mm        |
| Dielectric       | PTFE (Polytetrafluoroethylene)       |                        | 1.65 mm        |
| Outer conductor  | Copper, Tin plated                   | Tin soaked braid, 100% | 2.1 mm         |
| Jacket           | FEP (Fluorinated ethylene propylene) | RAL 3027 - rd          | 2.5 mm +/- 0.1 |

Print: HUBER+SUHNER SUCOFORM 86 FEP 50 Ohm (Pa no.)

#### Electrical Data

|                                |  |
|--------------------------------|--|
| Impedance                      | 50 Ω +/- 2                             |
| Operating Frequency            | 40 GHz                                 |
| Capacitance                    | 95 pF/m                                |
| Velocity of signal propagation | 71 %                                   |
| Signal delay                   | 4.7 ns/m                               |
| Insulation resistance          | ≥ 1 x 10 <sup>8</sup> MΩm              |
| Min. screening effectiveness   | ≥ 100 dB (up to 18 GHz)                |
| Max. operating voltage         | ≤ 1.5 kV <sub>rms</sub> (at sea level) |
| Test voltage                   | 3 kV <sub>rms</sub> (50 Hz/1 min)      |

#### Mechanical Data

|                     |  |
|---------------------|--|
| Weight              | 1.8 kg/100 m                           |
| Min. bending radius | static<br>repeated (for ≤ 50 bendings) |
|                     | 6 mm                                   |
|                     | 20 mm                                  |

#### Environmental Data

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

### Additional Information

#### Ordering Information

Order as SUCOFORM\_86\_FEP

#### Remarks

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

#### Suitable Connectors

Cable group Y16 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 = 0.6283

b = 0.04

f<sub>max</sub> = 40

P at 1GHz = 280

| Frequency<br>(GHz) | Nom. attenuation<br>(dB / m)<br>sea level 25° C<br>ambient<br>temperature | Nom. attenuation<br>(dB / ft)<br>sea level 25° C<br>ambient<br>temperature | Max. CW power<br>(watt)<br>sea level 40° C<br>ambient<br>temperature |
|--------------------|---|--|--|
| 2,0                | 0,97  | 0,295  | 198  |
| 4,0                | 1,42  | 0,432  | 140  |
| 6,0                | 1,78  | 0,542  | 114  |
| 8,0                | 2,1   | 0,639  | 99   |
| 10,0               | 2,39  | 0,727  | 89   |
| 12,0               | 2,66  | 0,810  | 81   |
| 14,0               | 2,91  | 0,887  | 75   |
| 16,0               | 3,15  | 0,961  | 70   |
| 18,0               | 3,39  | 1,032  | 66   |
| 20,0               | 3,61  | 1,100  | 63   |
| 22,0               | 3,83  | 1,166  | 60   |
| 24,0               | 4,04  | 1,231  | 57   |
| 26,0               | 4,24  | 1,293  | 55   |
| 28,0               | 4,44  | 1,355  | 53   |
| 30,0               | 4,64  | 1,415  | 51   |
| 32,0               | 4,83  | 1,473  | 49   |
| 34,0               | 5,02  | 1,531  | 48   |
| 36,0               | 5,21  | 1,588  | 47   |
| 38,0               | 5,39  | 1,644  | 45   |
| 40,0               | 5,57  | 1,699  | 44   |