

## Coaxial Cable S\_01162\_D-01

### Description

PE Foam - 50 Ohm - double screen



### Technical Data

#### Construction

|                  | Material                     | Detail        | Diameter       |
|------------------|------------------------------|---------------|----------------|
| Centre conductor | Copper                       | Strand-07     | 0.54 mm        |
| Dielectric       | SPE (Foamed Polyethylene)    |               | 1.37 mm        |
| Outer conductor  | Copper                       | Braid, 91%    | 1.7 mm         |
| Outer conductor  | Copper                       | Braid, 90 %   | 2.2 mm         |
| Jacket           | LSFH (modified polyethylene) | RAL 9005 - bk | 2.7 mm +/- 0.1 |

Print: No print on jacket

#### Electrical Data

|                                |                                        |
|--------------------------------|----------------------------------------|
| Impedance                      | 50 Ω +/- 2                             |
| Operating Frequency            | 2 GHz                                  |
| Capacitance                    | 82 pF/m                                |
| Velocity of signal propagation | 82 %                                   |
| Signal delay                   | 4.15 ns/m                              |
| Insulation resistance          | ≥ 1 x 10 <sup>8</sup> MQm              |
| Min. screening effectiveness   | ≥ 50 dB (up to 2 GHz)                  |
| Max. operating voltage         | ≤ 0.2 kV <sub>rms</sub> (at sea level) |
| Test voltage                   | 0.4 kV <sub>rms</sub> (50 Hz/1 min)    |

#### Mechanical Data

|                     |                              |              |
|---------------------|------------------------------|--------------|
| Weight              |                              | 1.3 kg/100 m |
| Min. bending radius | static                       | 12 mm        |
|                     | repeated (for ≤ 50 bendings) | 26 mm        |
|                     | dynamic                      | 40 mm        |

#### Environmental Data

|                          |                  |
|--------------------------|------------------|
| Temperature range        | -40 °C... +85 °C |
| Installation temperature | -20 °C... +60 °C |
| Halogen test             | IEC 60754        |
| 2011/65/EU (RoHS)        | compliant        |

### Additional Information

#### Ordering Information

Order as S\_01162\_D-01

#### Remarks

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

#### Suitable Connectors

Cable group X3 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 = 0.7625

b = 0.0428

f<sub>max</sub> = 2

P at 1GHz = 42

| 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 |
|--------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------|
| 0,1                | 0,25                                                                      | 0,075                                                                      | 133                                                                  |
| 0,2                | 0,35                                                                      | 0,107                                                                      | 94                                                                   |
| 0,3                | 0,43                                                                      | 0,131                                                                      | 77                                                                   |
| 0,4                | 0,5                                                                       | 0,152                                                                      | 66                                                                   |
| 0,5                | 0,56                                                                      | 0,171                                                                      | 59                                                                   |
| 0,6                | 0,62                                                                      | 0,188                                                                      | 54                                                                   |
| 0,7                | 0,67                                                                      | 0,204                                                                      | 50                                                                   |
| 0,8                | 0,72                                                                      | 0,218                                                                      | 47                                                                   |
| 0,9                | 0,76                                                                      | 0,232                                                                      | 44                                                                   |
| 1,0                | 0,81                                                                      | 0,245                                                                      | 42                                                                   |
| 1,1                | 0,85                                                                      | 0,258                                                                      | 40                                                                   |
| 1,2                | 0,89                                                                      | 0,270                                                                      | 38                                                                   |
| 1,3                | 0,93                                                                      | 0,282                                                                      | 37                                                                   |
| 1,4                | 0,96                                                                      | 0,293                                                                      | 35                                                                   |
| 1,5                | 1,0                                                                       | 0,304                                                                      | 34                                                                   |
| 1,6                | 1,03                                                                      | 0,315                                                                      | 33                                                                   |
| 1,7                | 1,07                                                                      | 0,325                                                                      | 32                                                                   |
| 1,8                | 1,1                                                                       | 0,335                                                                      | 31                                                                   |
| 1,9                | 1,13                                                                      | 0,345                                                                      | 30                                                                   |
| 2,0                | 1,16                                                                      | 0,355                                                                      | 30                                                                   |