

Coaxial Cable  
S\_04233

苏州启道 — 中国区优势专业供应商  
sales@qiidao.com

Description

PE Foam - 75 Ohm - single screen



Technical Data

Construction

|                  | Material                  | Detail        | Diameter       |
|------------------|---------------------------|---------------|----------------|
| Centre conductor | Copper                    | Wire          | 0.83 mm        |
| Dielectric       | SPE (Foamed Polyethylene) |               | 3.7 mm         |
| Outer conductor  | Copper                    | Braid, 92%    | 4.35 mm        |
| Jacket           | PVC II (low migration)    | RAL 9005 - bk | 6.1 mm +/- 0.1 |

Print: HUBER+SUHNER S 04233 75 Ohm (PA no.)

Electrical Data

|                                |                                        |
|--------------------------------|----------------------------------------|
| Impedance                      | 75 Ω +/- 3                             |
| Operating Frequency            | 1 GHz                                  |
| Capacitance                    | 54 pF/m                                |
| Velocity of signal propagation | 82 %                                   |
| Signal delay                   | 4.08 ns/m                              |
| Insulation resistance          | ≥ 1 x 10 <sup>8</sup> MΩm              |
| Min. screening effectiveness   | ≥ 40 dB (up to 1 GHz)                  |
| Max. operating voltage         | ≤ 0.5 kV <sub>rms</sub> (at sea level) |
| Test voltage                   | 1 kV <sub>rms</sub> (50 Hz/1 min)      |

Mechanical Data

|                     |                                                          |
|---------------------|----------------------------------------------------------|
| Weight              | 4.3 kg/100 m                                             |
| Min. bending radius | static<br>repeated (for ≤ 50 bendings)<br>35 mm<br>61 mm |

Environmental Data

|                          |                  |
|--------------------------|------------------|
| Temperature range        | -25 °C... +85 °C |
| Installation temperature | -20 °C... +60 °C |
| 2011/65/EU (RoHS)        | compliant        |

Additional Information

Ordering Information

Order as S\_04233

Remarks

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

Suitable Connectors

Cable group U17 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:  $(p / 0.5)$  ]

Coefficients:

a = 0.2622

b = 0.036

f<sub>max</sub> = 1

P at 1GHz = 146

| 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 |
|--------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------|
| 0,05               | 0,06                                                                      | 0,018                                                                      | 653                                                                  |
| 0,1                | 0,09                                                                      | 0,026                                                                      | 462                                                                  |
| 0,15               | 0,11                                                                      | 0,033                                                                      | 377                                                                  |
| 0,2                | 0,12                                                                      | 0,038                                                                      | 326                                                                  |
| 0,25               | 0,14                                                                      | 0,043                                                                      | 292                                                                  |
| 0,3                | 0,15                                                                      | 0,047                                                                      | 267                                                                  |
| 0,35               | 0,17                                                                      | 0,051                                                                      | 247                                                                  |
| 0,4                | 0,18                                                                      | 0,055                                                                      | 231                                                                  |
| 0,45               | 0,19                                                                      | 0,059                                                                      | 218                                                                  |
| 0,5                | 0,2                                                                       | 0,062                                                                      | 206                                                                  |
| 0,55               | 0,21                                                                      | 0,065                                                                      | 197                                                                  |
| 0,6                | 0,22                                                                      | 0,068                                                                      | 188                                                                  |
| 0,65               | 0,23                                                                      | 0,072                                                                      | 181                                                                  |
| 0,7                | 0,24                                                                      | 0,075                                                                      | 175                                                                  |
| 0,75               | 0,25                                                                      | 0,077                                                                      | 169                                                                  |
| 0,8                | 0,26                                                                      | 0,080                                                                      | 163                                                                  |
| 0,85               | 0,27                                                                      | 0,083                                                                      | 158                                                                  |
| 0,9                | 0,28                                                                      | 0,086                                                                      | 154                                                                  |
| 0,95               | 0,29                                                                      | 0,088                                                                      | 150                                                                  |
| 1,0                | 0,3                                                                       | 0,091                                                                      | 146                                                                  |