

Coaxial Cable  
G\_03233

苏州启道 — 中国区优势专业供应商  
sales@qiidao.com

Description

PE-75 Ohm - single screen



Technical Data

Construction

|                  | Material                 | Detail        | Diameter      |
|------------------|--------------------------|---------------|---------------|
| Centre conductor | Copper                   | Strand-07     | 0.49 mm       |
| Dielectric       | PE (Polyethylene)        |               | 2.95 mm       |
| Outer conductor  | Copper                   | Braid, 95%    | 3.6 mm        |
| Jacket           | PVC (Polyvinyl chloride) | RAL 9005 - bk | 5 mm +/- 0.15 |

Print: HUBER+SUHNER G 03233 75 Ohm (PA no.)

Electrical Data

|                                |                                        |
|--------------------------------|----------------------------------------|
| Impedance                      | 75 Ω +/- 3                             |
| Operating Frequency            | 1 GHz                                  |
| Capacitance                    | 67 pF/m                                |
| Velocity of signal propagation | 66 %                                   |
| Signal delay                   | 5.03 ns/m                              |
| Insulation resistance          | ≥ 1 x 10 <sup>8</sup> MΩm              |
| Min. screening effectiveness   | ≥ 39 dB (up to 1 GHz)                  |
| Max. operating voltage         | ≤ 2.5 kV <sub>rms</sub> (at sea level) |
| Test voltage                   | 5 kV <sub>rms</sub> (50 Hz/1 min)      |

Mechanical Data

|                     |                                                          |
|---------------------|----------------------------------------------------------|
| Weight              | 3.9 kg/100 m                                             |
| Min. bending radius | static<br>repeated (for ≤ 50 bendings)<br>25 mm<br>50 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 G\_03233

Remarks

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

Suitable Connectors

Cable group U12 3 mm / 75 Ohm

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

Coefficients:

a = 0.4925

b = 0.035

f<sub>max</sub> = 1

P at 1GHz = 82

| 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               | 0,11                                                                      | 0,034                                                                      | 367                                                                  |
| 0,1                | 0,16                                                                      | 0,049                                                                      | 259                                                                  |
| 0,15               | 0,2                                                                       | 0,060                                                                      | 212                                                                  |
| 0,2                | 0,23                                                                      | 0,069                                                                      | 183                                                                  |
| 0,25               | 0,26                                                                      | 0,078                                                                      | 164                                                                  |
| 0,3                | 0,28                                                                      | 0,085                                                                      | 150                                                                  |
| 0,35               | 0,3                                                                       | 0,093                                                                      | 139                                                                  |
| 0,4                | 0,33                                                                      | 0,099                                                                      | 130                                                                  |
| 0,45               | 0,35                                                                      | 0,105                                                                      | 122                                                                  |
| 0,5                | 0,37                                                                      | 0,111                                                                      | 116                                                                  |
| 0,55               | 0,38                                                                      | 0,117                                                                      | 111                                                                  |
| 0,6                | 0,4                                                                       | 0,123                                                                      | 106                                                                  |
| 0,65               | 0,42                                                                      | 0,128                                                                      | 102                                                                  |
| 0,7                | 0,44                                                                      | 0,133                                                                      | 98                                                                   |
| 0,75               | 0,45                                                                      | 0,138                                                                      | 95                                                                   |
| 0,8                | 0,47                                                                      | 0,143                                                                      | 92                                                                   |
| 0,85               | 0,48                                                                      | 0,147                                                                      | 89                                                                   |
| 0,9                | 0,5                                                                       | 0,152                                                                      | 86                                                                   |
| 0,95               | 0,51                                                                      | 0,156                                                                      | 84                                                                   |
| 1,0                | 0,53                                                                      | 0,161                                                                      | 82                                                                   |