

Coaxial Cable  
Enviroflex\_B58

苏州启道 — 中国区优势专业供应商  
sales@qiidao.com

Description

PE - 50 Ohm - single screen



Technical Data

Construction

|                  | Material                     | Detail        | Diameter         |
|------------------|------------------------------|---------------|------------------|
| Centre conductor | Copper, Tin plated           | Strand-19     | 0.9 mm           |
| Dielectric       | PE (Polyethylene)            |               | 2.95 mm          |
| Outer conductor  | Copper, Tin plated           | Braid, 94%    | 3.5 mm           |
| Jacket           | LSFH (modified polyethylene) | RAL 9005 - bk | 4.95 mm +/- 0.15 |

Print: HUBER+SUHNER ENVIROFLEX B58 50 OHM (PA no.)

Electrical Data

|                                |                                        |
|--------------------------------|----------------------------------------|
| Impedance                      | 50 Ω +/- 2                             |
| Operating Frequency            | 1 GHz                                  |
| Capacitance                    | 101 pF/m                               |
| Velocity of signal propagation | 66 %                                   |
| Signal delay                   | 5 ns/m                                 |
| Insulation resistance          | ≥ 1 x 10 <sup>8</sup> MΩm              |
| Min. screening effectiveness   | ≥ 40 dB (up to 3 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              | 3.8 kg/100 m                                      |
| Min. bending radius | static<br>repeated (for ≤ 50 bendings)<br>dynamic |
|                     | 25 mm<br>40 mm<br>50 mm                           |

Environmental Data

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

Additional Information

Ordering Information

|          |                |
|----------|----------------|
| Order as | Enviroflex_B58 |
|----------|----------------|

Remarks

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

Suitable Connectors

|             |                  |
|-------------|------------------|
| Cable group | U7 3 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 = 0.3455

b = 0.2373

f<sub>max</sub> = 1

P at 1GHz = 105

| Frequency<br>(GHz) | Nom. attenuation<br>(dB / m)              | Nom. attenuation<br>(dB / ft)             | Max. CW power<br>(watt)                   |
|--------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|
|                    | sea level 25° C<br>ambient<br>temperature | sea level 25° C<br>ambient<br>temperature | sea level 40° C<br>ambient<br>temperature |
| 0,05               | 0,09                                      | 0,027                                     | 470                                       |
| 0,1                | 0,13                                      | 0,041                                     | 332                                       |
| 0,15               | 0,17                                      | 0,052                                     | 271                                       |
| 0,2                | 0,2                                       | 0,062                                     | 235                                       |
| 0,25               | 0,23                                      | 0,071                                     | 210                                       |
| 0,3                | 0,26                                      | 0,079                                     | 192                                       |
| 0,35               | 0,29                                      | 0,088                                     | 177                                       |
| 0,4                | 0,31                                      | 0,096                                     | 166                                       |
| 0,45               | 0,34                                      | 0,103                                     | 157                                       |
| 0,5                | 0,36                                      | 0,111                                     | 148                                       |
| 0,55               | 0,39                                      | 0,118                                     | 142                                       |
| 0,6                | 0,41                                      | 0,125                                     | 136                                       |
| 0,65               | 0,43                                      | 0,132                                     | 130                                       |
| 0,7                | 0,46                                      | 0,139                                     | 125                                       |
| 0,75               | 0,48                                      | 0,145                                     | 121                                       |
| 0,8                | 0,5                                       | 0,152                                     | 117                                       |
| 0,85               | 0,52                                      | 0,159                                     | 114                                       |
| 0,9                | 0,54                                      | 0,165                                     | 111                                       |
| 0,95               | 0,56                                      | 0,171                                     | 108                                       |
| 1,0                | 0,58                                      | 0,178                                     | 105                                       |