

Coaxial Cable  
RG\_188\_A/U

苏州启道 — 中国区优势专业供应商  
sales@qiidao.com

Description

PTFE - 50 Ohm - single screen



Technical Data

Construction

|                  | Material                       | Detail        | Diameter       |
|------------------|--------------------------------|---------------|----------------|
| Centre conductor | Steel, Copper+Silver plated    | Strand-07     | 0.54 mm        |
| Dielectric       | PTFE (Polytetrafluoroethylene) |               | 1.55 mm        |
| Outer conductor  | Copper, Silver plated          | Braid, 94%    | 2 mm           |
| Jacket           | PFA (Perfluoroalkoxy)          | RAL 9010 - wh | 2.6 mm +/- 0.1 |

Print: HUBER+SUHNER RG 188 A/U 50 Ohm (PA no.)

Electrical Data

|                                |                                         |
|--------------------------------|-----------------------------------------|
| Impedance                      | 50 Ω +/- 2                              |
| Operating Frequency            | 3 GHz                                   |
| Capacitance                    | 97 pF/m                                 |
| Velocity of signal propagation | 69 %                                    |
| Signal delay                   | 4.86 ns/m                               |
| Insulation resistance          | ≥ 1 x 10 <sup>8</sup> MΩm               |
| Min. screening effectiveness   | ≥ 39 dB (up to 1 GHz)                   |
| Max. operating voltage         | ≤ 0.85 kV <sub>rms</sub> (at sea level) |
| Test voltage                   | 1.7 kV <sub>rms</sub> (50 Hz/1 min)     |

Mechanical Data

|                     |                                                   |
|---------------------|---------------------------------------------------|
| Weight              | 1.7 kg/100 m                                      |
| Min. bending radius | static<br>repeated (for ≤ 50 bendings)<br>dynamic |
|                     | 15 mm<br>26 mm<br>39 mm                           |

Environmental Data

|                          |                           |
|--------------------------|---------------------------|
| Temperature range        | -80 °C... +205 °C         |
| Installation temperature | -20 °C... +60 °C          |
| Flammability             | IEC 60332-3,<br>compliant |
| 2011/65/EU (RoHS)        |                           |

Additional Information

Ordering Information

|          |            |
|----------|------------|
| Order as | RG_188_A/U |
|----------|------------|

Remarks

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

Suitable Connectors

|             |                  |
|-------------|------------------|
| Cable group | U2 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 = 0.7501

b = 0.0884

f<sub>max</sub> = 3

P at 1GHz = 180

| 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 |
| 0,15               | 0,3                                       | 0,093                                     | 465                                       |
| 0,3                | 0,44                                      | 0,133                                     | 329                                       |
| 0,45               | 0,54                                      | 0,165                                     | 268                                       |
| 0,6                | 0,63                                      | 0,193                                     | 232                                       |
| 0,75               | 0,72                                      | 0,218                                     | 208                                       |
| 0,9                | 0,79                                      | 0,241                                     | 190                                       |
| 1,05               | 0,86                                      | 0,263                                     | 176                                       |
| 1,2                | 0,93                                      | 0,283                                     | 164                                       |
| 1,35               | 0,99                                      | 0,302                                     | 155                                       |
| 1,5                | 1,05                                      | 0,320                                     | 147                                       |
| 1,65               | 1,11                                      | 0,338                                     | 140                                       |
| 1,8                | 1,17                                      | 0,355                                     | 134                                       |
| 1,95               | 1,22                                      | 0,372                                     | 129                                       |
| 2,1                | 1,27                                      | 0,388                                     | 124                                       |
| 2,25               | 1,32                                      | 0,404                                     | 120                                       |
| 2,4                | 1,37                                      | 0,419                                     | 116                                       |
| 2,55               | 1,42                                      | 0,434                                     | 113                                       |
| 2,7                | 1,47                                      | 0,448                                     | 110                                       |
| 2,85               | 1,52                                      | 0,463                                     | 107                                       |
| 3,0                | 1,56                                      | 0,477                                     | 104                                       |