

Coaxial Cable  
RG\_213\_/U

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                 | Strand-07     | 2.25 mm         |
| Dielectric       | PE (Polyethylene)      |               | 7.25 mm         |
| Outer conductor  | Copper                 | Braid, 96%    | 8.1 mm          |
| Jacket           | PVC II (low migration) | RAL 9005 - bk | 10.3 mm +/- 0.1 |

Print: HUBER+SUHNER RG 213 U 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                   | 5.03 ns/m                            |
| Insulation resistance          | ≥ 1 x 10 <sup>8</sup> MΩm            |
| Min. screening effectiveness   | ≥ 40 dB (up to 1 GHz)                |
| Max. operating voltage         | ≤ 5 kV <sub>rms</sub> (at sea level) |
| Test voltage                   | 10 kV <sub>rms</sub> (50 Hz/1 min)   |

Mechanical Data

|                     |                                                           |
|---------------------|-----------------------------------------------------------|
| Weight              | 15.3 kg/100 m                                             |
| Min. bending radius | static<br>repeated (for ≤ 50 bendings)<br>50 mm<br>100 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 | RG_213_/U |
|----------|-----------|

Remarks

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

Suitable Connectors

|             |                   |
|-------------|-------------------|
| Cable group | U29 7 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 = 0.1679

b = 0.0585

f<sub>max</sub> = 1

P at 1GHz = 416

| 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               | 0,04                                                                      | 0,012                                                                      | 1860                                                                 |
| 0,1                | 0,06                                                                      | 0,018                                                                      | 1316                                                                 |
| 0,15               | 0,07                                                                      | 0,022                                                                      | 1074                                                                 |
| 0,2                | 0,09                                                                      | 0,026                                                                      | 930                                                                  |
| 0,25               | 0,1                                                                       | 0,030                                                                      | 832                                                                  |
| 0,3                | 0,11                                                                      | 0,033                                                                      | 760                                                                  |
| 0,35               | 0,12                                                                      | 0,037                                                                      | 703                                                                  |
| 0,4                | 0,13                                                                      | 0,039                                                                      | 658                                                                  |
| 0,45               | 0,14                                                                      | 0,042                                                                      | 620                                                                  |
| 0,5                | 0,15                                                                      | 0,045                                                                      | 588                                                                  |
| 0,55               | 0,16                                                                      | 0,048                                                                      | 561                                                                  |
| 0,6                | 0,17                                                                      | 0,050                                                                      | 537                                                                  |
| 0,65               | 0,17                                                                      | 0,053                                                                      | 516                                                                  |
| 0,7                | 0,18                                                                      | 0,055                                                                      | 497                                                                  |
| 0,75               | 0,19                                                                      | 0,058                                                                      | 480                                                                  |
| 0,8                | 0,2                                                                       | 0,060                                                                      | 465                                                                  |
| 0,85               | 0,2                                                                       | 0,062                                                                      | 451                                                                  |
| 0,9                | 0,21                                                                      | 0,065                                                                      | 439                                                                  |
| 0,95               | 0,22                                                                      | 0,067                                                                      | 427                                                                  |
| 1,0                | 0,23                                                                      | 0,069                                                                      | 416                                                                  |