# Data Sheet

## Coaxial Cable
## RG_179_B/U

## Description

PTFE - 75 Ohm - single screen

## Technical Data

### Construction

| | Material | Detail | Diameter |
|---|---|---|---|
| Centre conductor | Steel, Copper+Silver plated | Strand-07 | 0.31 mm |
| Dielectric | PTFE (Polytetrafluoroethylene) | | 1.55 mm |
| Outer conductor | Copper, Silver plated | Braid, 94% | 2 mm |
| Jacket | FEP (Fluorinated ethylene propylene) | RAL 8015 - br | 2.54 mm +/- 0.13 |

Print: HUBER+SUHNER RG 179 B/U 75 Ohm (PA no.)

### Electrical Data

| | |
|---|---|
| Impedance | 75 Ω +/- 3 |
| Operating Frequency | 3 GHz |
| Capacitance | 63 pF/m |
| Velocity of signal propagation | 69 % |
| Signal delay | 4.83 ns/m |
| Insulation resistance | ≥ 1 x $10^8$ MΩm |
| Min. screening effectiveness | ≥ 41 dB (up to 1 GHz) |
| Max. operating voltage | ≤ 0.75 $kV_{rms}$ (at sea level) |
| Test voltage | 1.5 $kV_{rms}$ (50 Hz/1 min) |

### Mechanical Data

| | | |
|---|---|---|
| Weight | | 1.48 kg/100 m |
| Min. bending radius | static | 15 mm |
| | repeated (for ≤ 50 bendings) | 25 mm |
| | dynamic | 38 mm |

### Environmental Data

| | |
|---|---|
| Temperature range | -65 °C... +165 °C |
| Installation temperature | -20 °C... +60 °C |
| Flammability | IEC 60332-1, , |
| 2011/95/EC (RoHS) | compliant |

## Additional Information

### Ordering Information

| | |
|---|---|
| Order as | RG_179_B/U |

### Remarks

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

### Suitable Connectors

| | |
|---|---|
| Cable group | U5 2 mm / 75 Ohm |

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**Matrix** typical Attenuation [ formula: (a*f^0.5 + b*f) ] and maximum Power CW [ formula: (p/f^0.5) ]
Coefficients:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| a = | 0.73 | b = | 0.1014 | $f_{max}$ = | 3 | P at 1GHz = | 115 |

| Frequency | Nom. attenuation | Nom. attenuation | Max. CW power |
|---|---|---|---|
| (GHz) | (dB / m) | (dB / ft) | (watt) |
| | sea level 25° C ambient temperature | sea level 25° C ambient temperature | sea level 40° C ambient temperature |
| 0.15 | 0.3 | 0.091 | 297 |
| 0.3 | 0.43 | 0.131 | 210 |
| 0.45 | 0.54 | 0.163 | 171 |
| 0.6 | 0.63 | 0.191 | 148 |
| 0.75 | 0.71 | 0.216 | 133 |
| 0.9 | 0.78 | 0.239 | 121 |
| 1.05 | 0.85 | 0.260 | 112 |
| 1.2 | 0.92 | 0.281 | 105 |
| 1.35 | 0.99 | 0.300 | 99 |
| 1.5 | 1.05 | 0.319 | 94 |
| 1.65 | 1.11 | 0.337 | 90 |
| 1.8 | 1.16 | 0.354 | 86 |
| 1.95 | 1.22 | 0.371 | 82 |
| 2.1 | 1.27 | 0.387 | 79 |
| 2.25 | 1.32 | 0.403 | 77 |
| 2.4 | 1.37 | 0.419 | 74 |
| 2.55 | 1.42 | 0.434 | 72 |
| 2.7 | 1.47 | 0.449 | 70 |
| 2.85 | 1.52 | 0.464 | 68 |
| 3.0 | 1.57 | 0.478 | 66 |




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