

Section 10

COAXIAL CABLE and FITTINGS

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RG214/U Double Shielded Coaxial Cable Huber and Suhner Brand, 50 Ohm



This double shielded 50 ohm RG214/U coaxial cable is manufactured by Huber and Suhner, a well recognised brand in the industry.



RG214/U is commonly used in test leads and quality installations requiring low PIM and cross talk.

Available in cut lengths, the Order Code is **8300**.

| Construction Specifications, Huber & Suhner RG214/U Cable (8300) | | | |
|------------------------------------------------------------------|---------------------------------------------------|----------------|---------------|
| Inner Conductor | Copper Silver Plated, Strand-07, 2.25 mm | | |
| Dielectric | Solid Polyethylene (PE), 7.28 mm | | |
| Outer Conductor | Copper Silver Plated, Braid 93% coverage, 8 mm | | |
| Outer Conductor | Copper Silver Plated, Braid 95% coverage, 8.7 mm | | |
| Jacket | Black PVC II (non migration), 10.8 mm (± 0.15 mm) | | |
| Mechanical Specifications | | | |
| Bend Radius | Static 55 mm, Dynamic 162 mm | | |
| Weight | 18.5 kg per 100 metres | | |
| Operating Temperature | -40°C to +85°C | | |
| Electrical Specifications | | | |
| Impedance | 50 Ohms (± 2 Ohms) | | |
| Maximum Frequency | 6 GHz | | |
| Capacitance | 101 pF/m | | |
| Velocity of Propagation | 66 % | | |
| Signal Delay | 5.03 nS/m | | |
| Shielding Effectiveness | > 71 dB up to 6 GHz | | |
| Max Operating Voltage | 5 kV rms at sea level | | |
| Attenuation | | Per 100 metres | Maximum Power |
| Frequency | 300 MHz | 12 dB | 593 Watts |
| | 600 MHz | 18 dB | 420 Watts |
| | 900 MHz | 23 dB | 343 Watts |
| | 1200 MHz | 27 dB | 297 Watts |
| | 1500 MHz | 31 dB | 265 Watts |
| | 1800 MHz | 35 dB | 242 Watts |
| | 2100 MHz | 39 dB | 224 Watts |
| | 2400 MHz | 43 dB | 210 Watts |
| | 2700 MHz | 46 dB | 198 Watts |
| | 3000 MHz | 50 dB | 188 Watts |
| | 3300 MHz | 53 dB | 179 Watts |
| | 3600 MHz | 57 dB | 171 Watts |
| | 3900 MHz | 60 dB | 165 Watts |
| | 4200 MHz | 63 dB | 159 Watts |
| | 4500 MHz | 66 dB | 153 Watts |
| | 4800 MHz | 69 dB | 148 Watts |
| | 5100 MHz | 73 dB | 144 Watts |
| | 5400 MHz | 76 dB | 140 Watts |
| | 5700 MHz | 79 dB | 136 Watts |
| | 6000 MHz | 82 dB | 133 Watts |