

## RG 214 Coaxial RF Cable

**RG 214** is a high-performance coaxial cable designed for low-loss and interference-resistant signal transmission in demanding RF applications. It features a stranded bare copper conductor, solid polyethylene dielectric, double copper braid shielding, and a rugged black PVC jacket.



Part No: TE-RFC-RG214-D10.8

| Cable Structure |                         |                      |          |
|-----------------|-------------------------|----------------------|----------|
| Layer           |                         | Material             | Diameter |
| 1               | Inner Conductor         | Bare copper wire     | 2.25 mm  |
| 2               | Insulation (Dielectric) | Solid polyethylene   | 7.24 mm  |
| 3               | Outer Shield (1)        | copper wire braiding | 8.0 mm   |
| 4               | Outer Shield (2)        | copper wire braiding | 8.7 mm   |
| 5               | Jacket                  | PVC (Black)          | 10.8 mm  |



| Physical Characteristics   |                  |        |            |                         |                          |
|----------------------------|------------------|--------|------------|-------------------------|--------------------------|
| Cable Outer Dia.           | 10.8 mm          |        | 0.425 inch | Durability              | > 1000                   |
| Weight                     | 185 g/m          |        |            | Working Temp.           | -25°C to +85°C           |
| Min Bending Radius         | Static (55.2 mm) |        |            | Crush Tolerance         | 14000 N/m                |
| Electrical Characteristics |                  |        |            |                         |                          |
| VSWR Max                   | 0.1GHz           | 1GHz   | 3GHz       | Impedance               | 50 ohms                  |
|                            | 1.15:1           | 1.20:1 | 1.35:1     | Cut-off Frequency       | 4 GHz                    |
| Insertion Loss (dB/m)      | 0.067            | 0.235  | 0.52       | Velocity                | 66%                      |
|                            |                  |        |            | Shielding Effectiveness | > 80 dB                  |
| Capacitance                | 101 pF/m         |        |            | V <sub>max</sub>        | 5000 V                   |
| Power Handling             | 160W@3GHz        |        |            | Insulation Resistance   | ≧ 5 × 10 <sup>6</sup> MΩ |

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