

## Flexible Coaxial Cable 50 $\Omega$ - PE - Double Shielding

## RG-214/U



### Material And Diameter

| Connector parts     | Material                          | Diameter |
|---------------------|-----------------------------------|----------|
| Inner Conductor     | Copper, Silver plated (Stranded ) | 2.25 mm  |
| Dielectric          | PE (Polyethylene)                 | 7.28 mm  |
| First Outer Shield  | Copper, Silver plated             | 8 mm     |
| Second Outer Shield | Copper, Silver plated             | 8.7 mm   |
| Jacket              | PVC II (PolyVinyl Chloride)       | 10.8 mm  |

### Electrical Data

|                                |                                    |
|--------------------------------|------------------------------------|
| Impedance                      | 50 $\Omega \pm 2$                  |
| Frequency                      | DC to 6 GHz                        |
| Capacitance                    | 101 pF/m                           |
| Velocity of signal propagation | 66 %                               |
| Signal delay                   | 5 ns/m                             |
| Insulation resistance          | $\geq 1 \times 10^8$ M $\Omega$ /m |
| Screening effectiveness        | $\geq 71$ dB (up to 1 GHz)         |
| Operating voltage              | $\leq 5$ kVrms (@ sea level)       |

### Mechanical Data

|                     |                                    |
|---------------------|------------------------------------|
| Weight              | 185 g/m                            |
| Min. bending radius | 55 mm (Static)<br>108 mm (Dynamic) |

### Environmental Data

|                          |                |
|--------------------------|----------------|
| Temperature range        | -25°C to +85°C |
| Installation temperature | -20°C to +60°C |
| RoHS (2011/65/EU)        | compliant      |

### Typical Attenuation

| Frequency (GHz) | Typical Attenuation (dB/m)<br>@ 25°C sea level | Typical Attenuation (dB/ft)<br>@ 25°C sea level | Max. CW power (Watt)<br>@ 40°C sea level |
|-----------------|------------------------------------------------|-------------------------------------------------|------------------------------------------|
| 0.3             | 0.13                                           | 0.04                                            | 593                                      |
| 0.6             | 0.19                                           | 0.06                                            | 420                                      |
| 0.9             | 0.25                                           | 0.08                                            | 343                                      |
| 1.2             | 0.30                                           | 0.09                                            | 297                                      |
| 1.8             | 0.38                                           | 0.12                                            | 242                                      |
| 2.4             | 0.46                                           | 0.14                                            | 210                                      |
| 3               | 0.54                                           | 0.16                                            | 188                                      |
| 5.1             | 0.78                                           | 0.24                                            | 144                                      |
| 6               | 0.87                                           | 0.27                                            | 133                                      |