

Technical Data Sheet

Flexible Coaxial Cable 75 Ω - PE - Single Shielding

RG-59B/U



Material And Diameter

| Connector parts | Material | Diameter |
|-----------------|-----------------------------|----------|
| Inner Conductor | Steel, Copper plated | 0.58 mm |
| Dielectric | PE (Polyethylene) | 3.64 mm |
| Outer Shield | Copper | 4.50 mm |
| Jacket | PVC II (PolyVinyl Chloride) | 6.10 mm |

Electrical Data

Impedance $75 \Omega \pm 1.5$ DC to 1 GHz Frequency Capacitance 67 pF/m Velocity of signal propagation 66 % 5.07 ns/m Signal delay $\geq 1 \times 10^8 M\Omega/m$ Insulation resistance Screening effectiveness \geq 40 dB (up to 1 GHz) Operating voltage ≤ 3 kVrms (@ sea level)

Mechanical Data

Weight 50 g/m
Min. bending radius 35 mm (Static)
65 mm (Dynamic)

Environmental Data

Temperature range $-25\,^{\circ}\text{C}$ to $+85\,^{\circ}\text{C}$ Installation temperature $-20\,^{\circ}\text{C}$ to $+60\,^{\circ}\text{C}$ RoHS (2011/65/EU) compliant

Typical Attenuation

| Frequency (GHz) | Typical Attenuation (dB/m) @ 25°C sea level | Typical Attenuation (dB/ft) @ 25°C sea level | Max. CW power (Watt) @ 40°C sea level |
|-----------------|--|---|--|
| 0.1 | 0.11 | 0.03 | 319 |
| 0.4 | 0.22 | 0.07 | 160 |
| 0.9 | 0.35 | 0.11 | 106 |
| 1 | 0.37 | 0.11 | 101 |

| The facts and figures herein are carefully compiled to the best of our |
|---|
| knowledge, but they are intended for general informational purposes only |
| In the effort to improve our products, we reserve the right to make changes |
| judged to be necessary. |

| | Rosnol RF/Microwave Technology www.rosnol.com ; info@rosnol.com |
|---------|--|
| ate: | Phone:+886-3-463-5095 |
| 9/11/10 | Fax:+886-3-463-5952 |