

RG Type Low Loss Coaxial Cables

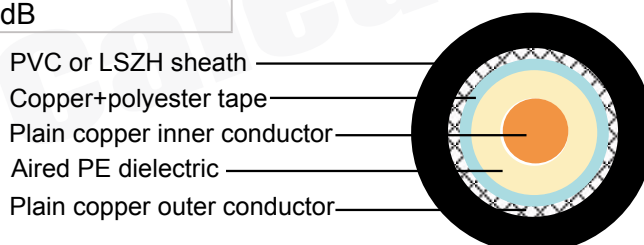
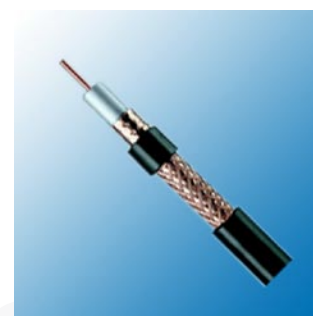
RG 100 LL

Construction

| | | |
|----------------------------|-------------------------|-------------------------|
| Inner conductor | Plain copper | 2.5 mm |
| Dielectric | Aired PE | $\Phi 6.90 \pm 0.20$ mm |
| Outer conductor (shield 1) | Copper + polyester tape | |
| Shield coverage | | 100% |
| Outer conductor (shield 2) | Plain copper | 96 x 0.12 mm |
| Shield coverage | | 50% |
| Sheath | PVC or LSZH | $\Phi 9.70 \pm 0.20$ mm |

Electrical & Mechanical Characteristics

| | |
|-----------------------------|-----------------|
| Impedance | 50 \pm 3 Ohm |
| Nominal capacitance | 80 pF/m |
| Velocity of propagation | 84% |
| Insulation resistance | >5000 Mohm.Km |
| Inner conductor resistance | 3.7 Ohm/Km |
| Outer conductor resistance | 12.5 Ohm/Km |
| Operating temperature range | -30 °C - +70 °C |
| Copper weight | 61.0 Kg/Km |
| Cable weight (approx.) | 128.4 Kg/Km |
| Screening effectiveness | >75 dB |



Attenuation

| Frequency(MHz) | Attenuation (dB/100 m) | Attenuation (dB/100ft) |
|----------------|------------------------|------------------------|
| 50 | 2.5 | 0.76 |
| 100 | 3.6 | 1.10 |
| 400 | 7.9 | 2.41 |
| 600 | 10.1 | 3.08 |
| 860 | 12.1 | 3.69 |
| 1000 | 13.2 | 4.02 |
| 1750 | 18.7 | 5.70 |
| 2400 | 22.2 | 6.77 |

Return Loss

| | |
|-------------|-------|
| 30-300 MHz | >25dB |
| 300-600 MHz | >22dB |
| 600-900 MHz | >18dB |