

RG Type 75 Ohm Coaxial Cables

RG 59 PC

Construction

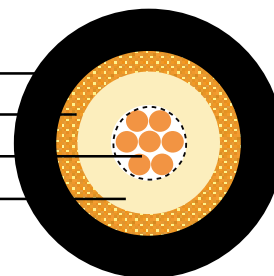
| | | |
|--------------------------|--------------|-------------------------|
| Inner conductor | Plain copper | 7 x 0.25 mm |
| Dielectric | Foam PE | $\Phi 3.70 \pm 0.10$ mm |
| Outer conductor (shield) | Plain copper | 120 x 0.15 mm |
| Shield coverage | | 95% |
| Sheath | PVC or LSZH | $\Phi 6.15 \pm 0.10$ mm |

Electrical & Mechanical Characteristics

| | |
|-----------------------------|-----------------|
| Impedance | 75 \pm 5 Ohm |
| Nominal capacitance | 56 pF/m |
| Velocity of propagation | 80% |
| Insulation resistance | >5000 Mohm.Km |
| Inner conductor resistance | 49 Ohm/Km |
| Outer conductor resistance | 9 Ohm/Km |
| Operating temperature range | -30 °C - +70 °C |
| Copper weight | 23.8 Kg/Km |
| Cable weight (approx.) | 53.0 Kg/Km |
| Screening effectiveness | >55 dB |



PVC or LSZH sheath
Plain copper shield
Plain copper inner conductor
Low density PE dielectric



Attenuation

| Frequency(MHz) | Attenuation (dB/100 m) | Attenuation (dB/100ft) |
|----------------|------------------------|------------------------|
| 50 | 7.1 | 2.16 |
| 100 | 10.1 | 3.08 |
| 200 | 14.0 | 4.27 |
| 400 | 20.2 | 6.16 |
| 500 | 23.6 | 7.20 |
| 600 | 26.2 | 7.99 |
| 860 | 32.2 | 9.82 |
| 1000 | 34.8 | 10.61 |

Return Loss

| | |
|-------------|-------|
| 30-300 MHz | >25dB |
| 300-600 MHz | >24dB |
| 600-900 MHz | >20dB |