

RA-X142C-WS

RG142 Coaxial Cable



Product overview

RG142 coaxial cable meets the standard: M17 / 60-rg142, maximum working frequency: dc-6ghz, rg142 high-temperature coaxial cable is used for interconnection between telecommunication equipment and is widely used in commercial wireless applications. The specific applications of rg142 include radar, GPS and medical system. Rg142 can be directly buried and can maintain good shielding effect when complex underground connection is realized

Construction

| | | |
|------------|-------------------|--------------------------------------|
| Conductor | Material | SCCS |
| | Diameter | 0.95 mm \pm 0.02 mm |
| | Wire Gauge | 19 AWG |
| Insulation | Material | PTFE |
| | Diameter Diameter | 2.95 mm \pm 0.2 mm |
| AL Foil | Construction | With Foil |
| | Material | APG (Customized optional: GAPG/BAPG) |
| | Width | 12 mm |
| | thickness | > 0.024 mm |
| | Overlap Rate | \geq 20% |
| Braid | Material | SPC |
| | Braid Coverage | 60% - 98% |
| Jacket | Material | FEP |
| | Diameter | 4.95 mm \pm 0.3 mm |

Packing

| | |
|----------------|-----------------------|
| Package length | 100m / 300m / 500m |
| | Customized |
| Box type | Ordinary / Waterproof |
| | Customized optional |

Test Data

| | |
|------------------------------|---|
| Capacitance | 95 pF/m. max |
| Maximum voltage | 5000 Volts |
| Velocity of propagation | 69 % |
| Operating Frequency | 8 GHz |
| Screening effectiveness | \geq 85 dB (up to 6 GHz) |
| Insulation resistance | \geq 1 x 10 ⁸ M Ω m |
| Max. operating voltage | \leq 2.5 kVrms (at sea level) |
| Characteristic Resistance | 50 Ω \pm 2 Ω |
| Elongation at Break (Wire) | \geq 15% |
| Elongation at Break (Sheath) | \geq 150% |
| Low Temperature Bending | Not cracked |
| Thermal Shock | Not cracked |
| Operating Temperature | - 20°C to +60°C (-4°F to 140°F) |
| Storage Temperature | - 10°C to +40°C (14°F to 104°F) |

Technical Test [Attenuation @68°F(20°C)]

| Frequency(MHZ) | Maximum(dB/100ft) | Maximum(dB/100m) |
|----------------|-------------------|------------------|
| 10 | 1.2 | 3.9 |
| 30 | 2.1 | 6.9 |
| 50 | 2.7 | 8.6 |
| 100 | 4 | 13 |
| 400 | 8 | 26 |
| 1000 | 13 | 43 |
| 1500 | 16 | 52 |
| 2000 | 19 | 62 |
| 2500 | 21 | 68 |
| 3000 | 24 | 78 |
| 5000 | 32 | 104 |