

# RG11 STANDARD SHIELD COAXIAL CABLE

## Description

RFI RG11 coaxial consists of copper-covered steel (CCS) center conductor, with gas-injected foam polyethylene insulation. It has a 100% foil coverage and a 60% aluminium braid shield coverage. The outer jacket can either be PVC or PE.

### Application

- Broadband CATV

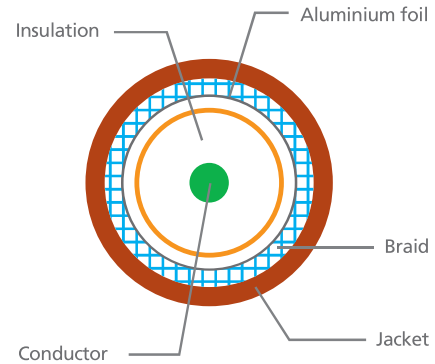
### Features

- 14 AWG Copper-covered Steel
- Tested up to 3GHz
- CM rated

### Standard and Compliance

- UL CATV, CATVX • RoHS

- RoHS compliance
- PE Jacket for Outdoor used



## Physical Specifications

|                     |                       |
|---------------------|-----------------------|
| <b>Conductor</b>    |                       |
| AWG                 | 14                    |
| Stranding           | Solid                 |
| Diameter(mm)        | 1.63 ± 0.02           |
| Material            | Copper-covered Steel  |
| <b>Insulation</b>   |                       |
| Material            | Foam Polyethylene     |
| Diameter (mm)       | 7.11 ± 0.20           |
| Nom. Thickness (mm) | 2.74                  |
| <b>Outer Shield</b> |                       |
| Foil Material       | Bonded Aluminium Foil |
| Foil Coverage       | 100%                  |
| Braid Material      | Aluminium Braid       |
| Braid Coverage      | 60%                   |
| Braid Structure     | 96 x 0.16 ± 0.002 mm  |
| Diameter (mm)       | 8.00 ± 0.20           |
| <b>Outer Jacket</b> |                       |
| Material            | PVC or PE             |
| Diameter (mm)       | 10.16 ± 0.20          |
| Nom. Thickness (mm) | 1.05                  |

## Electrical Characteristics

|   |              |
|---|--------------|
| Characteristics Impedance ( $\Omega$ )  | 75 ± 3       |
| Conductor DC Resistance ( $\Omega$ /km) | ≤ 36.9       |
| Insulation Resistance (M $\Omega$ .km)  | ≥ 5000       |
| Capacitance (pF/m)                      | 54 ± 3       |
| Operating Temperature                   | -40°C ~ 80°C |

## Attenuation at 20°C      Return Loss at 20°C

| Frequency (MHz) | Nom.Attn. (dB/100m) |
|-----------------|---------------------|
| 55              | ≤ 1.25              |
| 250             | ≤ 6.72              |
| 350             | ≤ 7.94              |
| 400             | ≤ 8.53              |
| 550             | ≤ 9.97              |
| 750             | ≤ 11.97             |
| 865             | ≤ 13.05             |
| 1000            | ≤ 14.27             |
| 1300            | ≤ 16.21             |
| 1450            | ≤ 17.36             |
| 1750            | ≤ 19.52             |
| 2150            | ≤ 21.65             |
| 2600            | ≤ 24.04             |
| 2830            | ≤ 25.09             |
| 3000            | ≤ 25.86             |

| Frequency (MHz) | Return Loss (dB) |
|-----------------|------------------|
| 5 ~ 950         | ≥ 21             |
| 950 ~ 3000      | ≥ 18             |

## Ordering information

| Part No.       | Description   |
|----------------|---|
| RCC-11S4023-27 | RG11 CCS 3GHz Standard Shield 60% Al. Braid Coaxial Cable, CM, PVC, 500m                        |
| RCC-11S4222-27 | RG11 CCS 3GHz Standard Shield 60% Al. Braid Coaxial Cable w/Flooding Compound, Outdoor PE, 500m |
| RCC-11S4022-27 | RG11 CCS 3GHz Standard Shield 60% Al. Braid Coaxial Cable, PE, 500m                             |