

### Application

Coaxial cables are suitable for many applications, including low power video, video signal, and broadband signals. They are also used in high frequency transmission, especially for transmitters and receivers, computers, radio and TV transmissions.

### Construction

|                  |                                |
|------------------|--------------------------------|
| Inner conductor: | Copper Clad Steel              |
| Dielectric:      | Foamed Polyethylene Insulation |
| Screen           | Aluminium Foil Tape            |
| Screen           | Aluminium Braid                |
| Sheath           | PVC Sheath                     |



### Mechanical Characteristics

|                              |  |
|------------------------------|--|
| 1. Inner conductor diameter: | 0.65mm Copper Clad Steel   |
| 2. Insulation diameter:      | 2.90mm (Nominal)   |
| 3.1 Screen:                  | Aluminium foil tape  |
| 3.2 Screen:                  | Aluminium Wire Braid<br>Coverage >85%  |
| 4. Sheath diameter:          | 4.70 x 9.50mm Nominal  |
| 5. Cable:                    | Storage operating temperature: -15°C to +70°C<br>Minimum installation temperature: -5 °C |

### Electrical characteristics

|                                |                   |
|--------------------------------|-------------------|
| DC resistance Inner conductor: | ≤ 260 Ω/km @ 20°C |
| DC resistance Outer conductor: | ≤ 45 Ω/km @ 20°C  |
| Characteristic Impedance:      | 75 ± 3Ωm          |
| Capacitance:                   | 53pF/m (nominal)  |
| Velocity Ratio:                | 0.81              |
| Attenuation (d/B 100m @ 20°C   |                   |
| 5Mhz                           | < 3.5             |
| 50Mhz                          | < 8.5             |
| 100Mhz                         | <11.0             |
| 200Mhz                         | <14.0             |
| 460Mhz                         | <22.5             |
| 860Mhz                         | <30.5             |
| 1000Mhz                        | <32.5             |
| 1750Mhz                        | <42.2             |
| 2150Mhz                        | <47.0             |
| Return Loss                    |                   |
| 5 – 470MHz                     | ≥23               |
| 470 – 862MHz                   | ≥20               |
| 862 – 2150MHz                  | ≥15               |