

Applications

These coaxial cables can be used in high frequency transmission networks.

Sector - BT-Security-TEC®
Coaxial Cables

Standard References

IEC 61196
(BS) EN 50117
(BS) EN 50290-2
RoHS directives

Design

1. Conductor

Solid annealed copper

2. Dielectric

Foamed Polyethylene

3. Screen

Copper foil,
100% coverage

4. Braid

Annealed copper
55% coverage

5. Sheath Material

PE

Standard Put Up Length

305 or 500 metres

Note: ® BT Security-Tec is a registered trade mark of British Telecommunications public limited company.

Physical Characteristics

| Inner Conductor Nom. (mm) | Dielectric Diameter Nom. (mm) | Outer Conductor Diameter Nom. (mm) | Overall Diameter Nom. (mm) | Temperature Range (°C) |
|---------------------------|-------------------------------|------------------------------------|----------------------------|------------------------|
| 3.38 | 14.9 | 15.8 | 19.8 | -40 ~ +70 |

Electrical Characteristics at 20°C (part 1)

| Nom. Impedance (Ω) | Max. DC Resistance Inner Conductor (Ω/km) | Max. DC Resistance Outer Conductor (Ω/km) | Nom. Capacitance (pF/m) | NVP (%) | Min. Insulation Resistance (MΩ.km) | Min. Test Voltage of Dielectric (V _{dc}) |
|--------------------|---|---|-------------------------|---------|------------------------------------|--|
| 75 | 1.9 | 2.6 | 54 | 84 | 10,000 | 3000 |

Electrical Characteristics at 20°C (part 2)

| Frequency (MHz) | Max. Attenuation (dB/100m) ±10% |
|-----------------|---------------------------------|
| 5 | 0.4 |
| 50 | 1.3 |
| 100 | 1.8 |
| 200 | 2.6 |
| 400 | 3.9 |
| 600 | 4.8 |
| 800 | 5.7 |
| 862 | 5.9 |
| 1000 | 6.5 |
| 1350 | 7.7 |
| 1750 | 9.0 |
| 2150 | 10.2 |
| 2400 | 10.9 |

| Frequency (MHz) | Min. Return Loss (dB) |
|-----------------|-----------------------|
| 5 ~ 30 | 26 |
| 30 ~ 470 | 26 |
| 470 ~ 862 | 23 |
| 862 ~ 2400 | 18 |