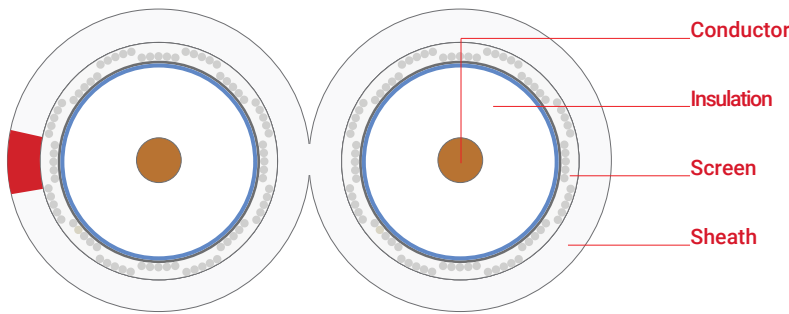




Cable structure



Conductor Electrolytic copper wire, Ø 1.02 mm (AWG18)

Insulation Physical foam PE, Ø 4.60 mm
70°C, EN 50290-2-23

Screen Al-Pet foil min. 100% coverage
Aluminium braided wire

Sheath PVC - RAL 9003 White, Ø 6.80x13.8 mm
TM51 70°C, EN 50290-2-22

Application

Utilising physical foam insulation technology, cables have a rated impedance of 75 ohms and comply with EN 50117. They are primarily used in Cable TV, individual/central satellite distribution and CCTV security camera systems.

Specifications

| | | |
|---------------------------|------|-------------------------|
| Operating temperature | | -30°C ...+70°C |
| Bending radius | min. | 10 x D |
| Impedance | | 75 ± 3 Ω |
| Capacitance | | 52 ± 2 pF/m |
| Velocity of propagation | | (84 ± 2)% |
| Insulation resistance | min. | 2 GΩ x km |
| Operating voltage | max. | 1300 V |
| Test voltage | | 3000 V |
| Attenuation @20°C | max. | 50 MHz 4.74 dB/100 m |
| | | 200 MHz 9.29 dB/100 m |
| | | 470 MHz 14.35 dB/100 m |
| | | 860 MHz 19.72 dB/100 m |
| | | 1000 MHz 21.37 dB/100 m |
| | | 2150 MHz 32.52 dB/100 m |
| | | 2400 MHz 34.59 dB/100 m |
| | | 3000 MHz 39.26 dB/100 m |
| Return loss ¹⁾ | | 5-470 MHz > 20 dB |
| | | 470-1000 MHz > 18 dB |
| | | 1000-2000 MHz > 16 dB |
| | | 2000-3000 MHz > 15 dB |
| Screening Class | | Class C |
| Segregation class | | "c" EN 50174-2 |
| Screen Attenuation | | 30-1000 MHz ≥ 75 dB |
| | | 1000-2000 MHz ≥ 65 dB |
| | | 2000-3000 MHz ≥ 55 dB |
| Transfer Impedance | | 5-30 MHz ≤ 50 mΩ/m |

Standards EN 50117, IEC 61196

Fire performance

Vertical flame propagation EN 60332-1-2
Corrosive gas EN 60754-1/2
Smoke density EN 61034-2

EU declaration of conformity

LVD Low Voltage Directive 2014/35/EU
RoHS Restriction of Hazardous Substances 2011/65/EU

Cable assembly length

| | | |
|--|----------|-------|
| Satellite distribution ²⁾ | 2150 MHz | 60 m |
| VHF/UHF distribution ³⁾ | 860 MHz | 150 m |
| S-band Cable TV distribution ³⁾ | 470 MHz | 210 m |

¹⁾ According to EN 50117, 3 return loss peaks, whose value exceeds the limit by a maximum of 4 dB, are permissible.

²⁾ Maximum applicable length in 20 dBμV satellite distribution without line amplifier

³⁾ Maximum applicable length in 30 dBμV VHF/UHF and S-band Cable TV without line amplifier

| Product code | Cable structure | Diameter [mm] | Copper weight [kg/km] | Cable weight [kg/km] | Sheath colour | Packaging [m] |
|--------------|--------------------------|---------------|-----------------------|----------------------|----------------------|------------------|
| 307097 | 2xRG 6 U/4 PHY-PVC Cu/Al | 6.80x13.8 | 15 | 81 | White/Red (RAL 9003) | 100/250/500/1000 |

Specifications may vary depending on technical modifications.