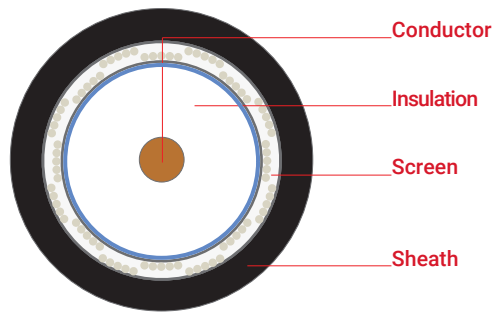




**Cable structure**



Electrolytic copper wire, Ø 1.02 mm (AWG18)

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

Al-Pet-Sy foil min. 100% coverage  
Tinned braided copper wire  
Al-Pet foil min. 100% coverage

HFFR - RAL 9011 Black, Ø 6.80 mm  
70°C, EN 50290-2-27

**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. Cables are composed of halogen-free materials (flame retardant materials that do not emit toxic gas or black dense smoke that lowers visibility). They are primarily used in highly populated areas that should have fire resistance, such as housing estates, hotels, shopping malls and smart buildings.

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

**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 <sup>1)</sup> | 5-470 MHz > 20 dB     |                         |
|                           | 470-1000 MHz > 18 dB  |                         |
|                           | 1000-2000 MHz > 16 dB |                         |
|                           | 2000-3000 MHz > 15 dB |                         |
| Screening Class           | Class A+              |                         |
| Segregation class         | "d" EN 50174-2        |                         |
| Screen Attenuation        | 30-1000 MHz ≥ 95 dB   |                         |
|                           | 1000-2000 MHz ≥ 85 dB |                         |
|                           | 2000-3000 MHz ≥ 75 dB |                         |
| Transfer Impedance        | 5-30 MHz ≤ 2.5 mΩ/m   |                         |

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

<sup>2)</sup> Maximum applicable length in 20 dBµV satellite distribution without line amplifier

<sup>3)</sup> 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] |
|--------------|-----------------------------------|---------------|-----------------------|----------------------|--------------------|---------------|
| 307114       | RG 6 U/4 PHY-HF Cu/CuSn Trishield | 6.80          | 16                    | 47                   | ■ Black (RAL 9011) | 100/500/1000  |
| 307091       | RG 6 U/4 PHY-HF Cu/CuSn Trishield | 6.80          | 16                    | 47                   | □ White (RAL 9003) | 100/500/1000  |

Specifications may vary depending on technical modifications.