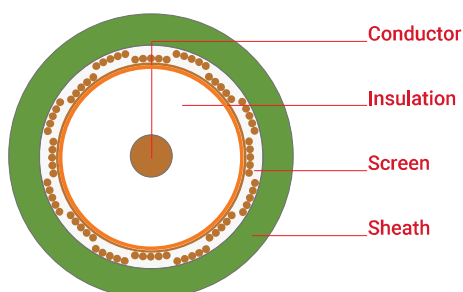




Cable structure



Conductor Electrolytic copper wire, Ø 1.02 mm (AWG18)

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

Screen Cu-Pet foil min. 100% coverage
Electrolytic braided copper wire

Sheath PVC - RAL 6018 Green, Ø 6.80 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.

Standards EN 50117, IEC 61196

Fire performance

Vertical flame propagation EN 60332-1-2

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

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 B	
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	≤ 15 mΩ/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]
307059	RG 6 U/6 PHY-PVC Cu/Cu	6.80	17	47	 Green (RAL 6018)	100/500/1000
307156	RG 6 U/6 PHY-PVC Cu/Cu	6.80	17	47	 White (RAL 9003)	100/500/1000
307157	RG 6 U/6 PHY-PVC Cu/Cu	6.80	17	47	 Black/ Green (RAL 9011)	100/500/1000
307158	RG 6 U/6 PHY-PVC Cu/Cu	6.80	17	47	 Black (RAL 9011)	100/500/1000

Specifications may vary depending on technical modifications.