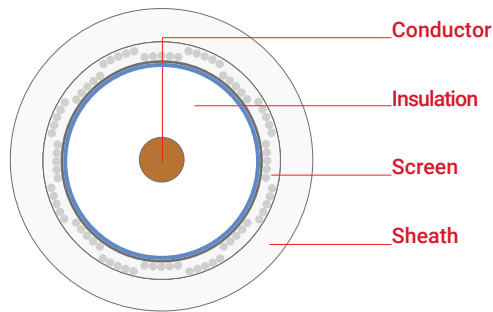




Cable structure



Conductor

Electrolytic copper wire, Ø 0.81 mm (AWG20)

Insulation

Physical foam PE, Ø 3.70 mm
70°C, EN 50290-2-23

Screen

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

Sheath

PVC - RAL 9003 White, Ø 5.80 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.

Specifications

Operating temperature		-30°C ...+70°C	
Bending radius	min.	10 x D	
Impedance		75 ± 3 Ω	
Capacitance		54 ± 2 pF/m	
Velocity of propagation		(82 ± 2)%	
Insulation resistance	min.	2 GΩ x km	
Operating voltage	max.	1000 V	
Test voltage		2500 V	
Attenuation @20°C	max.	50 MHz	5.95 dB/100 m
		200 MHz	11.71 dB/100 m
		470 MHz	18.08 dB/100 m
		860 MHz	24.79 dB/100 m
		1000 MHz	26.85 dB/100 m
		2150 MHz	40.62 dB/100 m
Return loss ¹⁾		2400 MHz	43.16 dB/100 m
		3000 MHz	48.87 dB/100 m
		5-470 MHz	> 20 dB
		470-1000 MHz	> 18 dB
Segregation class		1000-2000 MHz	> 16 dB
		2000-3000 MHz	> 15 dB
		"c" EN 50174-2	

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	50 m
VHF/UHF distribution ³⁾	860 MHz	120 m
S-band Cable TV distribution ³⁾	470 MHz	170 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]
307054	RG 59 U/4 PHY-PVC Cu/Al	5.80	4.5	30	☐ White (RAL 9003)	100/500/1000
307115	RG 59 U/4 PHY-PVC Cu/Al	5.80	4.5	30	■ Black (RAL 9011)	100/500/1000

Specifications may vary depending on technical modifications.