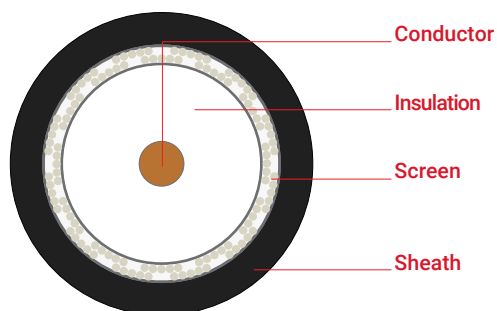




Cable structure



Conductor

Insulation

Screen

Sheath

Electrolytic copper wire, Ø 1.63 mm (AWG14)

Physical foam PE, Ø 7.11 mm
70°C, EN 50290-2-23

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

PE - RAL 9011 Black, Ø 10.3 mm
80°C, EN 50290-2-24

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. Thanks to the polyethylene sheath, they are preferred for outdoor and underground installations.

Specifications

Operating temperature		-40°C ...+70°C	
Bending radius	min.	10 x D	
Impedance		75 ± 3 Ω	
Capacitance		52 ± 2 pF/m	
Velocity of propagation		(85 ± 2)%	
Insulation resistance	min.	2 GΩ x km	
Operating voltage	max.	2000 V	
Test voltage		5000 V	
Attenuation @20°C	max.	50 MHz	3.15 dB/100 m
		200 MHz	6.18 dB/100 m
		470 MHz	9.60 dB/100 m
		860 MHz	13.29 dB/100 m
		1000 MHz	14.43 dB/100 m
		2150 MHz	22.25 dB/100 m
		2400 MHz	23.73 dB/100 m
		3000 MHz	27.06 dB/100 m
Return loss ¹⁾		5-470 MHz	> 23 dB
		470-1000 MHz	> 20 dB
		1000-2000 MHz	> 18 dB
		2000-3000 MHz	> 16 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	

Standards EN 50117, IEC 61196

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	70 m
VHF/UHF distribution ³⁾	860 MHz	170 m
S-band Cable TV distribution ³⁾	470 MHz	230 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]
307190	TRB 11 PE	10.3	35	85	■ Black (RAL 9011)	500/1000

Specifications may vary depending on technical modifications.