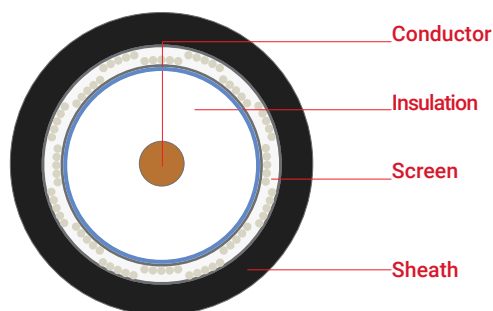




Cable structure



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

PE - RAL 9011 Black, Ø 6.80 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.

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

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		(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 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

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]
307075	RG 6 U/4 PHY-PE Cu/CuSn Trishield	6.80	16	47	■ Black (RAL 9011)	100/500/1000

Specifications may vary depending on technical modifications.