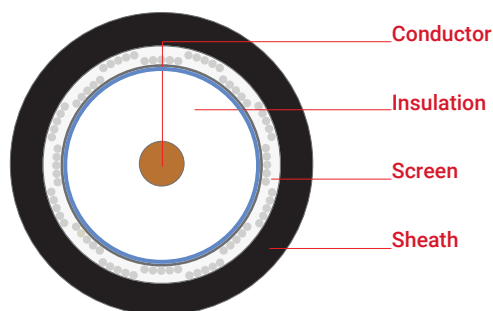




Cable structure



Electrolytic copper wire, Ø 0.81 mm (AWG20)

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

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

HFFR - RAL 9011 Black, Ø 5.80 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 distribution²⁾ 2150 MHz 50 m
VHF/UHF distribution³⁾ 860 MHz 120 m
S-band Cable TV distribution³⁾ 470 MHz 170 m

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
		2400 MHz	43.16 dB/100 m
		3000 MHz	48.87 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
Segregation class		"c" EN 50174-2	

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]
307081	RG 59 U/4 PHY-HF Cu/Al	5.80	4.5	30	■ Black (RAL 9011)	100/500/1000

Specifications may vary depending on technical modifications.