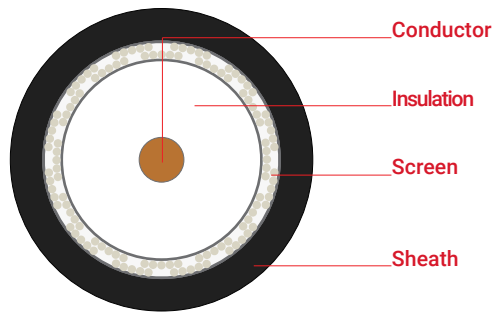




Cable structure



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

HFFR - RAL 9011 Black, Ø 10.3 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.

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		(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 loss1)		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	≤ 2.5 mΩ/m

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	90 m
VHF/UHF distribution ³⁾	860 MHz	230 m
S-band Cable TV distribution ³⁾	470 MHz	310 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]
307177	TRB 11 HF	10.3	35	110	Black (RAL 9011)	500/1000

Specifications may vary depending on technical modifications.