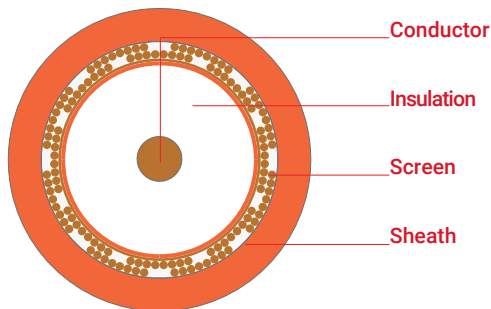




Cable structure



Electrolytic copper wire, Ø 1.13 mm

Physical foam PE, Ø 4.80 mm
70°C, EN 50290-2-23

Cu-Pet foil min. 100% coverage
Electrolytic braided copper wire

PVC - RAL 2003 orange, Ø 6.90 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		52 ± 2 pF/m	
Velocity of propagation		(85 ± 2)%	
Insulation resistance	min.	2 GΩ x km	
Operating voltage	max.	1300 V	
Test voltage		3000 V	
Attenuation @20°C	max.	50 MHz	4.32 dB/100 m
		200 MHz	8.44 dB/100 m
		470 MHz	13.05 dB/100 m
		860 MHz	17.96 dB/100 m
		1000 MHz	19.48 dB/100 m
		2150 MHz	29.74 dB/100 m
		2400 MHz	31.65 dB/100 m
		3000 MHz	35.98 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	≥ 85 dB
		1000-2000 MHz	≥ 75 dB
		2000-3000 MHz	≥ 65 dB
Transfer Impedance		5-30 MHz	≤ 5.0 mΩ/m

Standards EN 50117, IEC 61196

Fire performance

Vertical flame propagation EN 60332-1-2

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	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]
307104	DSR 115	6.90	26	53	Orange (RAL 2003)	100/500/1000

Specifications may vary depending on technical modifications.