

CCTV Armoured Fire Resistant Composite cable

Coax RG 11 75 ohm

Signal 2x2xAWG22

Power 3x2.5mm²

Armoured

SHF1

Application

Armoured composite cable CCTV, fireresistant and fire retardant composite cabel. Coaxial, signal and power elements stranded together into a compact core, with fillers and wrapping Inner jacket, SHF1 thermoplastic compound, galvanized steel wire braid, outer jacket - SHF1 thermoplastic compound LSZH.



2 Pair

O.D.	Ø=4,3mm [mm]
Conductor	Stranded Tinned Cu AWG22/7 2 x 2 x 0.34mm ²
Insulation	XLPE + fire resistant tape
Colour code	White and black stranded together into a pair.
Screen	Al-/polyester tape 100% coverage + tinned Cu drain wire
Jacket	non-corrosive thermoplastic compound LSZH colour coded (1.Black 2.Blue)
Conductor resistance	≤ 90 [Ω/km]
Insulation resistance	≥ 1000 [MΩ x km]
Test voltage	1000 [V AC x 1 min.]

Coaxial

Type	RG 11 FR 75Ω
Conductor	Stranded Tinned Cu 7x40mm
Dielectric	PE
Screen	Al-tape + polyester + Al-tape Braid
Jacket	non-corrosive thermoplastic compound, Low Smoke Zero Halogen Ø 10.3
Capacitance	67 [pF/m]
Conductor resistance	20,5 [Ω/km]
Braid Resistance	4,4 [Ω/km]
Velocity factor	0,67

Power cable

Type	3 x 2.5mm ²
Conductor	Stranded tinned Cu 2.5 [mm ²]
Insulation	Fire resistant tape + cross linked polyethylene Ø=3,3 [mm]
Colourcode	1-black, 2-red and 3-yellow/green
Conductor resistance	≤ 7,98 [Ω/km]
Insulation resistance	≥ 5000 [MΩ x km]
Test voltage	2000 [V-AC 1min.]

Short description

Assembling	Cable core : coaxial, signal and power elements stranded together into a cable with fillers and wrapping Inner jacket (outer for unarmoured version) : SHF1 thermoplastic compound black colour (other colours upon request)
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Specifications

Operating temperature normal	-40 - +80 [°C]
Temperature storage	-40 - +70 [°C]
Armour	Galvanized steel wire braid
Outer jacket	Black SHF1
Outer diam	26 [mm]
Weight	936 [kg/km]

Norms

Halogenfree, max content corrosive and toxic gases	IEC 60754-1 and IEC 60754-2
Flame resistance	IEC 60332-3-24 Cat.C
Flame retardant	IEC 60332-1-2
Toxic gases max.	EN 50305 9.2
Fire resistant	IEC 60331-23
Smoke emission	IEC 61034-2 EN 50268-2
UV-resistant	IEC60811-2-1 ASTM D 2565 92A



Attenuation nominal, max 105%

Frequency MHz	Attenuation dB/100m
Coax	
1000	23,4
3000	50,1

Structural return loss

MHz	dB
Coax	
3000	> 20,0

Screen effectiveness IEC 61196-1

MHz	dB
Coax	
3000	> 20,0