



CCTV cable 75Ohm coax RG11 Signal 2 pairs Power 3 cores SHF1



Store at: -40 to +70 °C

Install at: -10 to +50 °C, **Bend minimum:** 20 times O.D.

Operate at: -40 to +80 °C, **Bend minimum:** 20 times O.D.

Design

Coaxial, 75Ohm RG11

Inner conductor : stranded tinned copper 7×0.40mm

Dielectric : polyethylene Ø 5.25 ± 0.18 mm

Braid : bare copper, coverage 97%

Wrapping : non-migrating polyester tape

Sheath : non-corrosive thermoplastic compound, Low Smoke Zero Halogen Ø 10.3 ± 0.20 mm

Velocity : 67%

Attenuation : @ 1000MHz 23.4 dB/100m

Capacitance : 67 pF/m

Attenuation : @ 3000MHz 50.1 dB/100m

Resistance conductor : 20.5 Ω /km

Return Loss : @ 3000MHz > 20.0 dB

Resistance braid : 4.4 Ω /km

Screening effectiveness : > 20.0 dB

Signal, 2 pairs AWG22

Conductor : stranded tinned copper AWG22/7 strands

Insulation : polyethylene nominal \varnothing 2.55

Assembling : no 2 insulated conductors colour coded (1.White, 2.Black) stranded together into a pair.

Screen : aluminium/polyester tape 100% coverage with tinned copper drain wire

Sheath : non-corrosive thermoplastic compound, LSZH, nom. \varnothing 4.3mm, colour coded (1.Black 2.Bue)

Resistance of conductor @ 20°C : \leq 90 Ω /km

Insulation resistance @ 20°C : \geq 1000 M Ω x km

Test Voltage : 1000 V DC x 1 minute

Power, 3 cores 2.5mm²

Conductor : stranded tinned copper 2.5mm²

Insulation : cross linked polyethylene nominal \varnothing 3.0mm, colour coded (1.Black, 2.Red, 3.Green/Yellow)

Conductor resistance @ 20°C : \leq 7.98 Ω /km

Insulation resistance @ 20°C : \geq 5000 M Ω x km

Test Voltage : 2000 V AC x 1 minute

Assembling

Cable core : coaxial, signal and power elements stranded together into a compact core, with fillers and wrapping

Inner jacket (outer for unarmoured version) : SHF1 thermoplastic compound LSZH, \varnothing 17.5mm, black colour

Marking : APS Finland - ww/yy - ARMoured COMPOSITE CABLE OC7511P223251 - LSZH IEC60332-3-24 - lot + m

Armoured version

Armour : galvanized steel wire armour, coverage \geq 80% (alternatives : Bronze braid, Stainless steel braid)

Outer jacket : SHF1 thermoplastic compound LSZH, nom. \varnothing 25.0mm, black colour

Marking : APS Finland - ww/yy - ARMoured COMPOSITE CABLE OC7511P223251F1 - LSZH IEC60332-3-24 - lot + m

Environmental properties and Fire Performances

Degree of acidity of gases : IEC 60754-1, IEC 60754-2 (pH value \geq 4,3 and Conductivity \leq 10 μ S/mm)

Halogen acid gas : IEC 60754-1, IEC 60754-2 (Halogen acid gas emission \leq 0.5%)

Smoke Emission : IEC 61034-2, EN 50268-2 (Transmittance) \geq 60%)

Toxicity of evolved gas : EN 50305 9.2

Flame retardant : IEC 60332-1-2

Fire retardant : IEC 60332-3-24 Cat.C

Oil resistant : intermittent splash – permanent resistance available upon request

Water penetration : NO

Ordering and delivery information

Cable type	P/N	O.D [mm]	Weight [kg/km]	Packaging
Unarmoured	OC75112P223251	17.5	480	drum 500m (+/-5%)
Armoured GSWB	OC75112P223251F21	25.0	580	drum 500m (+/-5%)
Armoured GSWA	OC75112P223251FA1	27.0	620	drum 500m (+/-5%)
Armoured Bronze braid	OC75112P223251FB1	25.0	580	drum 500m (+/-5%)
Armoured St. Steel braid	OC75112P223251SA1	27.0	620	drum 500m (+/-5%)

Other standards of reference

IEC 60092-370	Electrical installations in ships: Guidance on the selection of cables for telecommunication and data.
IEC 60092-360	Electrical installations in ships: Insulating and sheathing materials for shipboard and offshore units.
CEI EN 50289 series	Communication cables - Specifications for test methods
MIL-C-17	General specification for radio frequency coaxial cables
IEC61196-1	Coaxial communication cables
EN 50290-2-23	Insulation materials for telecommunication cables
IEC 60811	Insulating and sheathing materials of electric cables - Test method



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