

APPLICATION

Armoured cables for signalling systems, instrumentation and control of electrical mechanisms grouped in pairs. Maximum rated voltage 500 V (peak value, not for power supply), Indicated for fixed installations, indoor or outdoor, protected or not. Can be installed directly or buried.

CABLE DESIGNATION

Cu / PVC / Al Screen / PVC / STA (Steel tape armour) / PVC
Cu / PVC / Al Screen / PVC / SWA (Steel wire armour) / PVC
Cu / PE / Al Screen / PVC / STA (Steel tape armour) / PVC
Cu / PE / Al Screen / PVC / SWA (Steel wire armour) / PVC
Cu / XLPE / Al Screen / PVC / STA (Steel tape armour) / PVC
Cu / XLPE / Al Screen / PVC / SWA (Steel wire armour) / PVC
Cu / XLPE / Al Screen / LSHF / STA (Steel tape armour) / LSHF
Cu / XLPE / Al Screen / LSHF / SWA (Steel wire armour) / LSHF

CONSTRUCTION CHARACTERISTICS

Conductor

Rigid (class 2) or flexible (class 5) copper, sizes 0.5 mm²; 1.0 mm² and 1.5 mm², as per IEC 60228.

Insulation

PVC, solid polyethylene or cross-linked polyethylene.

Arrangement (formation)

Stranded pairs.

Core assembly

Concentric layers.

Core wrapping

Dielectric tape, helically applied with an overlap.

Shield (screen)

Aluminium / polyester tape applied helically with an overlap.
A 0.5 mm² tinned copper drain wire is applied under the tape.

Inner sheath (jacket)

Extruded PVC or LSHF – Low Smoke Halogen Free thermoplastic compound.

Armour

Two steel tapes armour or galvanised steel wire armour, helically applied.

Oversheath (jacket)

Extruded PVC or LSHF – Low Smoke Halogen Free thermoplastic compound.



GENERAL AND ELECTRICAL CHARACTERISTICS (20°C)

		0.5 mm ²	1.0 mm ²	1.5 mm ²
Maximum resistance of conductor at 20°C dc(Ω/km)	Class 2	36.7	18.5	12.3
	Class 5	39.8	19.9	13.6
Dielectric strength (60s) – 500 V rating		3 kV _{dc} or 2.0 kV _{ac}		
Mutual capacitance		Polyolefin: < 150 nF/km PVC: < 250 nF/km		
Capacitance unbalance		500 pF/500m		

DIMENSIONAL CHARACTERISTICS

Rigid Cu • PE • Al screen • PVC • SWA • PVC – 500V rating

N.º of pairs	0.5 mm ²		1.0 mm ²		1.5 mm ²	
	Diameter (mm)	Weight (kg/km)	Diameter (mm)	Weight (kg/km)	Diameter (mm)	Weight (kg/km)
4	15.5	420	17.0	480	18.0	570
7	17.5	520	19.5	630	21.0	750
9	20.5	650	22.5	780	25.5	1 130
12	22.0	730	25.0	1 090	27.5	1 310
19	26.0	1 140	29.0	1 400	31.5	1 720
27	30.5	1 440	33.5	1 790	37.5	2 450
37	33.5	1 730	37.5	2 200	42.0	3 050

Flexible Cu • PE • Al screen • PVC • SWA • PVC – 500V rating

N.º of pairs	0.5 mm ²		1.0 mm ²		1.5 mm ²	
	Diameter (mm)	Weight (kg/km)	Diameter (mm)	Weight (kg/km)	Diameter (mm)	Weight (kg/km)
4	15.5	410	17.0	490	18.5	570
7	17.5	520	20.0	650	21.0	740
9	20.5	630	23.0	790	26.0	1120
12	22.0	720	25.5	1 110	27.5	1290
19	26.0	1 110	29.5	1 440	31.5	1690
27	30.0	1 400	34.5	1 840	38.0	2390
37	33.5	1 680	38.0	2 250	42.5	2990