



CONTROL CABLES

Multicore Overall Screen

NOT ARMoured

XLPE/OSC/PVC
XLPE/OSC/LSZH

ARMoured

XLPE/OSC/PVC/GSTA/PVC
XLPE/OSC/LSZH/GSTA/LSZH

APPLICATIONS

Can be used to connect electric instruments and apparatus, for secondary switching of remote-control starters and regulators, for protective relaying and in automation.

OPERATING TEMPERATURE

-20 °C to +80 °C (for general use);
-40 °C to +90 °C (on request).

MINIMUM BENDING RADIUS

Not armoured type

12 times the outer diameter (for conductors class 1 and class 2);
10 times the outer diameter (for conductors class 5).

Armoured type

15 times the outer diameter.

CABLE CONSTRUCTION

Conductors Plain annealed electrolytic copper wire according to EN 60228 class 1(U) solid, class 2 (R) stranded, class 5 (F) flexible.

Insulation XLPE, PVC, PE or LSZH thermoplastic material.

Cabling The insulated cores are cabled together, with suitable non hygroscopic fillers (when necessary) and wrapped with plastic tape if required.

Overall screen Copper/polyester tape, coverage >100%, copper in contact with tinned copper drain wire (Aluminium/polyester tape can be supplied as alternative).

Armoured

Inner sheath: PVC or LSZH thermoplastic material.

Armour: GSTA - Double galvanized steel tape armour

(SWA - Steel wire armour can be supplied as alternative).

Outer sheath PVC or LSZH thermoplastic material.

APPLICABLE STANDARDS

Basic design 60502-1

Flame retardant 60332-1

Fire retardant (cat. C or A according to requirements) IEC 60332-3

Halogen free properties (only for LSZH cables) IEC 60754-1

Low smoke emission (only for LSZH cables) IEC 61034-2

IEC 60502-1 (0.6/1 kV)

Cross section (mm ²)	UNARMoured		ARMoured		
	Outer diameter (mm)	Weight (kg/km)	Diameter under armour (mm)	Outer diameter (mm)	Weight (kg/km)
1,5 mm ² stranded	R-XLPE/OSC/PVC		R-XLPE/OSC/PVC/GSTA/PVC		
3x1.5	10,6	150	9,0	13,4	300
5x1.5	12,2	210	10,6	15,0	380
7x1.5	13,1	245	11,5	15,9	435
12x1.5	16,6	385	15,0	19,4	620
19x1.5	19,1	535	17,5	21,9	810
24x1.5	22,1	660	20,5	24,9	980
2,5 mm ² stranded	R-XLPE/OSC/PVC		R-XLPE/OSC/PVC/GSTA/PVC		
3x2.5	11,4	180	9,8	14,2	325
5x2.5	13,3	260	11,7	16,1	470
7x2.5	14,4	345	12,8	17,2	530
12x2.5	18,4	535	16,8	21,2	770
19x2.5	21,1	765	19,5	23,9	1015
24x2.5	24,6	950	23,0	27,4	1265

approximate values