



FIRE RESISTANT CONTROL CABLES

Firecel Multicore Overall Screen

NOT ARMoured

mXLPE/OSC/LSZH
SR/OSC/LSZH

ARMoured

mXLPE/OSC/LSZH/GSTA/LSZH
SR/OSC/LSZH/GSTA/LSZH

APPLICATIONS

Can be used in emergency services to connect electric instruments and apparatus, for secondary switching of remote-control starters and regulators, for protective relaying, and in automation when the continuity of service has to be assured also in the event of a fire.

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 mXLPE or SR.

Cabling The insulated cores are cabled together, with suitable non hygroscopic fillers (when necessary) and wrapped with special fire proof 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: LSZH thermoplastic material.

Armour: GSTA - Double galvanized steel tape armour

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

Outer sheath LSZH thermoplastic material.

APPLICABLE STANDARDS

Basic design IEC 60502-1

Fire resistant IEC 60331-21

Flame retardant IEC 60332-1

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

Halogen free properties IEC 60754-1

Low smoke emission 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-mXLPE/OSC/LSZH		R-mXLPE/OSC/LSZH/GSTA/LSZH		
3x1.5	11,8	200	10,2	14,6	400
5x1.5	13,8	275	12,2	16,6	500
7x1.5	14,9	315	13,3	17,7	560
12x1.5	18,9	490	17,3	21,7	790
19x1.5	21,8	645	20,2	24,6	980
24x1.5	25,4	790	23,8	28,2	1175
2,5 mm ² stranded	R-mXLPE/OSC/LSZH		R-mXLPE/OSC/LSZH/GSTA/LSZH		
3x2.5	12,6	220	11,0	15,4	400
5x2.5	14,6	315	13,0	17,4	570
7x2.5	16,2	420	14,6	19,0	645
12x2.5	20,7	640	19,1	23,5	925
19x2.5	24,0	910	22,4	26,8	1210
24x2.5	27,1	1140	25,5	29,9	1520

approximate values