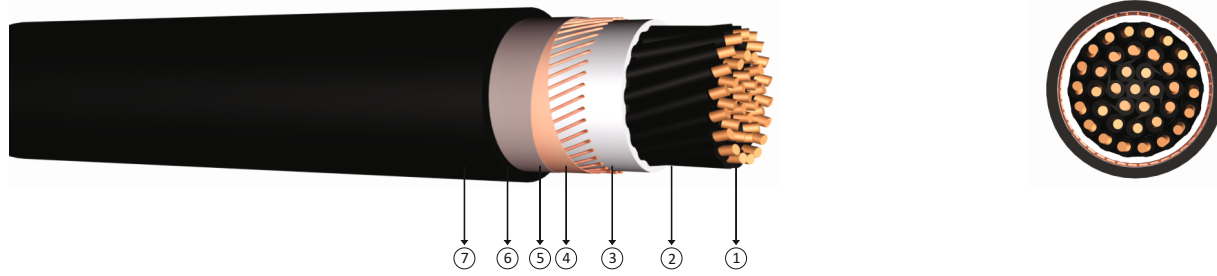


0.6 / 1 kV XLPE Insulated, concentric conductor screen, control cables with copper conductor



Code: YXCV-U, YXC-R, CU/XLPE/SC/PVC, N2XCY

U: Solid Conductor

R: Stranded Conductor Rigid

Standards: IEC 60502 - 1, VDE 0271

Technical Data

Max. operating temperature : 90 °C
 Max. short circuit temperature : 250 °C (max. 5 sec.)
 Rated voltage : 0.6/1 kV
 Min. bending radius : 15 x D
 D : Cable outer diameter

Application These cables have a low dielectric loss, used as control cables, indoor installations, in cable ducts, outdoor and underground for power stations, industrial plants and switching stations as well as local supply systems if increased protection is necessary. In case of mechanical damage the screen prevents any damage due to power leak to the surrounding area.

Construction

- 1 Solid or Stranded copper conductor
- 2 XLPE insulation
- 3 Filler
- 4 Concentric copper wire
- 5 Copper tape as binder
- 6 Polyester tape
- 7 PVC outer jacket

DIMENSION AND WEIGHTS			ELECTRICAL PROPERTIES			
Nominal Cross Section	Overall Diameter (approx)	Net Weight (approx)	Delivery Length	DC Conductor Resistance at 20 °C Max	Current Carrying Capacity (A)	
mm ²	mm	kg/km	m	ohm/km	In ground at 20 °C	In air at 30 °C
7x1,5/2,5	16,2	360	1000	12,1	18,0	15,6
8x1,5/2,5	18,0	430	1000	12,1	16,5	14,4
10x1,5/2,5	19,0	500	1000	12,1	15,0	13,2
12x1,5/2,5	18,5	510	1000	12,1	14,3	12,6
14x1,5/2,5	20,3	550	1000	12,1	13,5	12,0
19x1,5/4	21,0	740	1000	12,1	12,0	10,8
24x1,5/6	25,0	950	1000	12,1	10,5	9,6
30x1,5/6	26,2	1000	1000	12,1	9,9	9,1
37x1,5/10	26,5	1200	1000	12,1	9,3	8,6
7x2,5/2,5	16,5	460	1000	7,41	24,0	20,8
8x2,5/2,5	19,7	500	1000	7,41	22,0	19,2
10x2,5/4	20,8	600	1000	7,41	20,0	17,6
12x2,5/4	21,3	730	1000	7,41	19,0	16,8
14x2,5/6	21,0	820	1000	7,41	18,0	16,0
19x2,5/6	24,2	900	1000	7,41	16,0	14,4
24x2,5/10	27,5	1200	1000	7,41	14,0	12,8
30x2,5/10	28,8	1400	1000	7,41	13,2	12,2
37x2,5/10	30,8	1600	1000	7,41	12,4	11,5
7x4/4	18,0	550	1000	4,61	31,2	27,3
8x4/6	21,5	760	1000	4,61	28,6	25,2
10x4/6	23,0	800	1000	4,61	26,0	23,1
12x4/6	23,5	900	1000	4,61	24,7	22,1
14x4/6	24,5	1000	1000	4,61	23,4	21,0
19x4/10	27,0	1300	1000	4,61	20,8	18,9

Note : Current carrying capacities are valid under the following conditions;
 In ground : 20 °C, 70 cm depth of lay, soil-thermal resistivity 1 K.m/W, load factor 0.7
 In air : 30 °C, load factor 1.0
 Number of system : 1