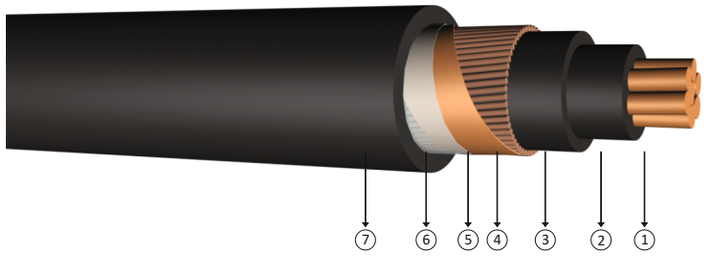
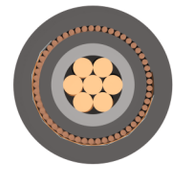
0.6 / 1 kV XLPE insulated concentric conductor screen,single core cables with copper conductor





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

U: Solid Conductor
R: Stranded Conductor Rigid

Standards: IEC 60502 - 1, VDE 0276 - 603

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, 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 demage due to power leak to the surrounding area.

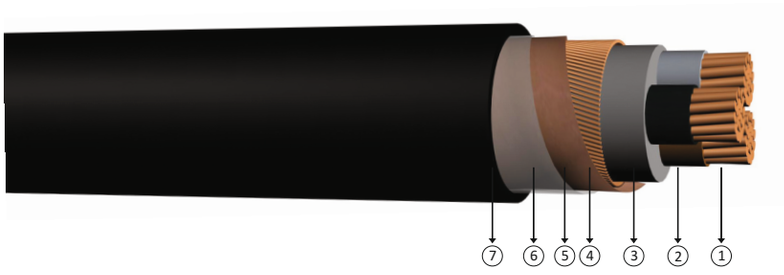
Construction

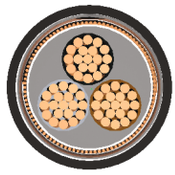
1. Solid or stranded copper conductor
2. XLPE insulation
3. Inner sheath
4. Concentric copper wire
5. Copper tape as binder
6. Polyester tape
7. PVC outer jacket

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)			
					Toprakta 20 °C		Havada 30 °C	
mm ²	mm	kg/km	m	ohm/km	***	****	***	****
1x1,5/1,5	10,5	140	1000	12,1	39	32	32	25
1x2,5/2,5	11,0	160	1000	7,41	51	43	42	34
1x4/4	11,3	200	1000	4,61	66	55	56	44
1x6/6	11,5	220	1000	3,08	82	68	71	57
1x10/10	12,5	390	1000	1,83	109	90	96	77
1x16/16	14,0	430	1000	1,15	139	115	128	102
1x25/16	15,5	550	1000	0,727	179	149	173	139
1x35/16	16,5	650	1000	0,524	213	178	212	170
1x50/25	18,0	850	1000	0,387	251	211	258	208
1x70/35	20,0	1200	1000	0,268	307	259	328	265
1x95/50	22,5	1600	1000	0,193	366	310	404	326
1x120/70	25,0	2000	1000	0,153	416	352	471	381
1x150/70	26,5	2300	1000	0,124	465	396	541	438
1x185/95	29,0	2900	1000	0,0991	526	449	626	507
1x240/120	32,0	3700	1000	0,0754	610	521	749	606

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
*** : Flat formation, clearance between cables; in air = 1 x Cable outer diameter, in ground = 7 cm
**** : Trefoil formation
Number of system : 1

0.6 / 1 kV XLPE insulated concentric conductor screen, multi-core cables with copper conductor





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

R: Stranded Conductor Rigid

Standards: IEC 60502 - 1, VDE 0276 - 603

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, 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 demage due to power leak to the surrounding area.

Construction

1. Stranded copper conductors
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
3x25/16	24,5	1300	1000	0,727	143	130
3x35/16	26,5	1600	1000	0,524	173	160
3x50/25	29,0	2100	1000	0,387	205	195
3x70/35	34,0	3000	1000	0,268	252	247
3x95/50	39,0	4100	1000	0,193	303	305
3x120/70	43,0	5100	500	0,153	346	355
3x150/70	47,5	6200	500	0,124	390	407
3x185/95	53,0	7700	500	0,0991	441	469
3x240/120	59,5	10000	250	0,0754	511	551
3x300/150	65,0	12300	250	0,0601	580	638
3x400/185	73,0	15800	250	0,0470	663	746

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