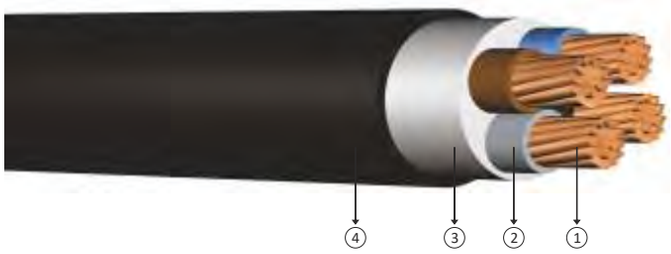
0,6/1 kV XLPE insulated, multi-core cables with copper conductor



Code: YXV-U, YXV-R, CU/XLPE/PVC, N2XY

U: Solid Conductor
R: Stranded Conductor

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	: 12 x D
D	: Cable outer diameter

Application

These cables have a low dielectric loss, used in indoor and outdoor applications, in cable ducts, underground, in power or switching stations, local energy distributions, industrial plants, where there is no risk of mechanical damage.

Construction

1. Solid or stranded copper conductor
2. XLPE insulation
3. Thermoplastic filler
4. PVC outer sheath

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)	
mm²	mm	kg/km	m	Ω/km	In ground at 20°C	In air at 30°C
4x1.5	12,0	200	1000	12,1	30	24
4x2.5	13,0	250	1000	7,41	40	32
4x4	14,0	350	1000	4,61	52	42
4x6	15,5	450	1000	3,08	64	53
4x10	17,5	630	1000	1,83	86	73
4x16	20,5	905	1000	1,15	111	96
4x25	24,5	1400	1000	0,727	143	130
4x35	27,0	1850	1000	0,524	173	160
4x50	30,5	2500	1000	0,387	205	195
4x70	35,5	3500	1000	0,268	252	247
4x95	39,5	4650	1000	0,193	303	305
4x120	44,5	5900	500	0,153	346	355
4x150	49,0	7200	500	0,124	390	407
4x185	54,5	8950	500	0,0991	441	469
4x240	62,0	11600	250	0,0754	511	551
4x300	70,0	14400	250	0,0601	580	638
4x400	80,0	19000	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