0,6/1 kV PVC insulated, single core cables, with copper conductor

Code: YVV-U, YVV-R, CU/PVC/PVC, NYY

U: Solid Conductor
R: Stranded Conductor

Standards: IEC 60502-1, VDE 0276-603

Technical Data

Max. operating temperature	: 70°C
Max. short circuit temperature	: (max. 5 sec.)
Cross section • 300 mm^2	: 160°C
Cross section > 300 mm^2	: 140°C
Rated voltage	: 0,6/1 kV
Min. bending radius	: 12 x D
D	: Cable outer diameter

Application

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. PVC insulation
3. 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)			
					In ground at 20°C		In air at 30°C	
mm²	mm	kg/km	m	Ω/km	***	****	***	****
1x1,5	5,8	50	1000	12,1	-	30	25	20
1x2,5	6,2	60	1000	7,41	-	39	34	27
1x4	7,0	85	1000	4,61	-	50	45	37
1x6	7,5	105	1000	3,08	-	62	57	48
1x10	9,0	160	1000	1,83	-	83	78	66
1x16	10,0	215	1000	1,15	127	107	103	89
1x25	11,5	320	1000	0,727	163	137	137	118
1x35	12,5	420	1000	0,524	195	165	169	145
1x50	14,0	570	1000	0,387	230	195	206	176
1x70	15,5	780	1000	0,268	282	239	261	224
1x95	18,0	1050	1000	0,193	336	287	321	271
1x120	19,5	1300	1000	0,153	382	326	374	314
1x150	21,0	1600	1000	0,124	428	366	428	361
1x185	23,5	1950	1000	0,0991	483	414	494	412
1x240	27,0	2550	1000	0,0754	561	481	590	484
1x300	30,5	3150	1000	0,0601	632	542	678	549
1x400	34,0	4200	1000	0,0470	730	624	817	657
1x500	37,0	5200	1000	0,0366	823	698	940	749
1x630	42,0	6450	500	0,0283	866	775	1042	858

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