



NYCY

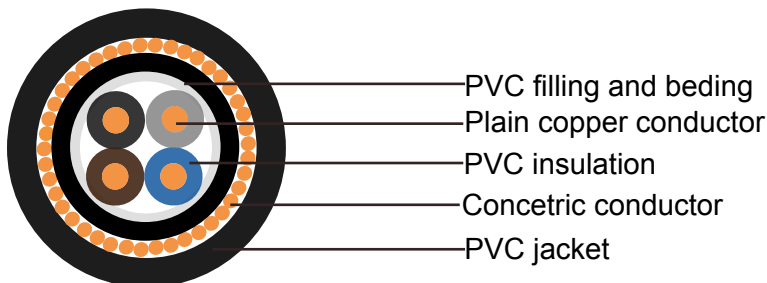
Application and Description

NYCY cables are used in power plants, industrial and switching installations, for street lighting, domestic power supply connections, in secondary distribution networks and other. These cables are preferentially used for underground application as well as for interior installation in room and cable ducts and for outdoor applications, for indoor installations, in the open air, underground and in water where greater mechanical protection and protection against accidental contact is required if damaged.

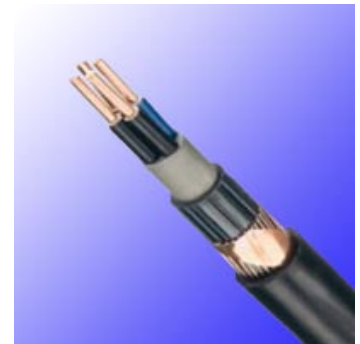
Standard and Approval

VDE0276 part 603, CENELEC HD603 S1, IEC 60502

7 cores and above to VDE0276 part 627, CENELEC HD627 S1, IEC 60502



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Cable Construction

- Solid plain copper conductor
- to DIN VDE 0295 cl. 1 and IEC 60228 cl. 1
- PVC insulation DIV4 to HD 603.1
- Color coded to DIN VDE 0293-308, 0276 part 603 or HD 186
- PVC filling and bedding
- Concentric conductor: copper wires and helical copper tape
- PVC outer jacket DMV5 to HD 603.1



Technical Characteristics

- Working voltage: 600/1000 volts
- Test voltage: 4000 volts
- Flexing bending radius: 15 x Ø
- Static bending radius: 12 x Ø
- Flexing temperature: -5° C to +50° C
- Fixed installation temperature: - 40° C to +70° C
- Short circuit temperature: +160° C
- Flame retardant: IEC 60332.1
- Insulation resistance: >100 MΩ x km

Cable Parameter

AWG	No. of Cores x Nominal Cross Sectional Area # x mm ²	Conductor Type	Nominal Overall Diameter mm	Nominal Copper Weight kg/km	Nominal Cable Weight kg/km
8	1 x 10.0	re/10	11	216	280
6	1 x 16.0	re/16	12	336	440
16	2 x 1.5	re/1.5	13	52	205
14	2 x 2.5	re/2.5	13.5	80	270
12	2 x 4.0	re/4	15.5	123	360
10	2 x 6.0	re/6	17	182	435
8	2 x 10.0	re/10	19.5	312	590
6	2 x 16.0	re/16	20.5	489	820
16	3 x 1.5	re/1.5	13.5	66	225
14	3 x 2.5	re/2.5	14.5	104	290
12	3 x 4.0	re/4	16.5	161	400
10	3 x 6.0	re/6	17.5	240	510
8	3 x 10.0	re/10	20	408	850
6	3 x 16.0	re/16	23	643	1080
16	4 x 1.5	re/1.5	14.5	81	260
14	4 x 2.5	re/2.5	15.5	128	350
12	4 x 4.0	re/4	17	200	470
10	4 x 6.0	re/6	18.5	297	590
8	4 x 10.0	re/10	21	504	900
6	4 x 16.0	re/16	23	796	1250
16	5 x 1.5	re/1.5	15	95	330
14	5 x 2.5	re/2.5	16	152	400



German Standard (VDE)

AWG	No. of Cores x Nominal Cross Sectional Area # x mm ²	Conductor Type	Nominal Overall Diameter mm	Nominal Copper Weight kg/km	Nominal Cable Weight kg/km
12	5 x 4.0	re/4	19	238	560
10	5 x 6.0	re/6	21	355	710
8	5 x 10.0	re/10	23	600	1000
16	7 x 1.5	re/1.5	15	124	320
16	7 x 1.5	re/2.5	16	133	350
14	7 x 2.5	re/2.5	17.5	200	450
12	7 x 4.0	re/4	21	315	670
10	7 x 6.0	re/6	24	470	790
16	8 x 1.5	re/1.5	17	138	380
16	8 x 1.5	re/2.5	17	147	400
14	8 x 2.5	re/2.5	18	224	510
16	10 x 1.5	re/2.5	19	176	440
14	10 x 2.5	re/4	20.5	286	600
16	12 x 1.5	re/2.5	20	205	500
14	12 x 2.5	re/4	21	334	660
16	14 x 1.5	re/2.5	20.5	234	540
14	14 x 2.5	re/4	22	382	760
14	14 x 2.5	re/6	22.5	403	800
16	16 x 1.5	re/4	22	276	600
14	16 x 2.5	re/6	23	451	910
16	19 x 1.5	re/4	23	320	690
14	19 x 2.5	re/6	23.5	523	950
16	21 x 1.5	re/6	24	369	810
14	21 x 2.5	re/6	26	571	1100
16	24 x 1.5	re/6	26	413	860
14	24 x 2.5	re/10	28	696	1300
16	30 x 1.5	re/6	27	499	1230
14	30 x 2.5	re/10	30	840	1610
16	40 x 1.5	re/10	30	696	1590
14	40 x 2.5	re/10	35	1080	2100
16	52 x 1.5	re/10	32	869	1820
14	52 x 2.5	re/10	38	1368	2500
16	61 x 1.5	re/10	33	998	2000
14	61 x 2.5	re/10	40	1584	2850