



## NYCWY

### Application and Description

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NYCWY Power cables is for energy supply, preferably used for underground laying, especially in subscriber networks, power station as well as control impulses and test data. Overall, where increased electrical and also mechanical protection are required. These cables are installed in open air, in underground, in water, indoors and in cable ducts. The corrugated concentric conductor (CW) is allowed to use as neutral, protective or earth conductor. Simultaneously, this also is permitted to apply as a screen for example earthed-connected protection against contact. Due to the typical construction of corrugated concentric conductors (Ceander), are possible to obtain many more cable joints, without cutting any conductor. In that way the operating reliability is guaranteed.

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### Standard and Approval

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VDE0276 part 603, CENELEC HD603 S1, IEC 60502

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### Cable Construction

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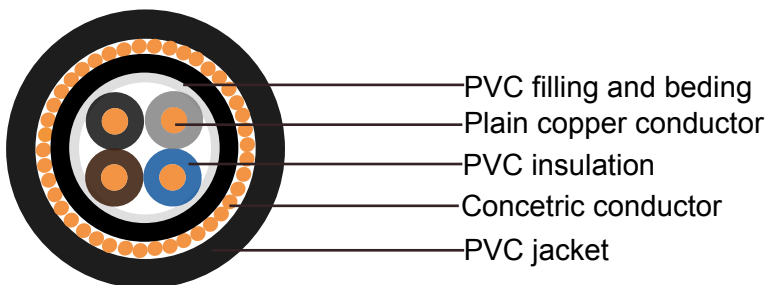
- Plain copper conductors solid or stranded versions, conductor types
    - 10-16 mm<sup>2</sup> round, solid conductors (re) alt.
    - 10-25 mm<sup>2</sup>, stranded conductor (rm),
    - 35-240 mm<sup>2</sup>, sector shaped conductor, stranded (sm)
  - to DIN VDE 0295 cl. 1 or cl. 2, BS 6360 cl. 1, IEC 60228 and HD 383
  - PVC insulation DIV4 to HD 603.1
  - Color coded to DIN VDE 0293-308, 0276 part 603 or HD 186
  - PVC bedding
  - Concentric conductor: ceander shaped copper wires and helical copper tape
  - PVC outer jacket DMV5 to HD 603.1
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## German Standard (VDE)

### 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



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### Cable Parameter

AWG	No. of Cores x Nominal Cross Sectional Area # x mm <sup>2</sup>	Stranded Conductor Type	Nominal Overall Diameter mm	Nominal Copper Weight kg/km	Nominal Cable Weight kg/km
8	2 x 10.0	re / 10.0	19	312	650
6	2 x 16.0	re / 16.0	21.5	489	850
4	2 x 25.0	rm / 25.0	24.5	763	1210
8	3 x 10.0	re / 10.0	19.5	408	730
6	3 x 16.0	re / 16.0	22	643	1000
4	3 x 25.0	rm / 16.0	26	902	1550
4	3 x 25.0	rm / 25.0	26	1003	1600
2	3 x 35.0	sm / 35.0	27.5	1402	1850
2	3 x 35.0	sm / 16.0	27	1190	1750
1	3 x 50.0	sm / 50.0	29.5	2000	2450



# Addison Industrial Cables

## German Standard (VDE)

AWG	No. of Cores x Nominal Cross Sectional Area # x mm <sup>2</sup>	Stranded Conductor Type	Nominal Overall Diameter mm	Nominal Copper Weight kg/km	Nominal Cables Weight kg/km
1	3 x 50.0	sm / 25.0	29	1723	2250
2/0	3 x 70.0	sm / 70.0	34	2796	3350
2/0	3 x 70.0	sm / 35.0	33	2410	2950
3/0	3 x 95.0	sm / 95.0	38.5	3791	4550
3/0	3 x 95.0	sm / 50.0	38	3296	4100
4/0	3 x 120.0	sm / 70.0	41	4236	5050
4/0	3 x 120.0	sm / 120.0	42	4786	5550
300mcm	3 x 150.0	sm / 70.0	45	5100	6000
300mcm	3 x 150.0	sm / 150.0	46	5970	6900
350mcm	3 x 185.0	sm / 95.0	50	6383	7550
350mcm	3 x 185.0	sm / 185.0	51	7363	8500
500mcm	3 x 240.0	sm / 120.0	57	8242	9950
8	4 x 10.0	re / 10.0	20.5	504	890
6	4 x 16.0	re / 16.0	23.5	796	1250
4	4 x 25.0	rm / 16.0	28	1142	1800
2	4 x 35.0	sm / 16.0	29	1526	2050
1	4 x 50.0	sm / 25.0	33	2203	2700
2/0	4 x 70.0	sm / 35.0	37	3082	3750
3/0	4 x 95.0	sm / 50.0	43.5	4208	5000
4/0	4 x 120.0	sm / 70.0	47	5388	6350
300mcm	4 x 150.0	sm / 70.0	51	6540	7650
350mcm	4 x 185.0	sm / 95.0	56	8159	9350
500mcm	4 x 240.0	sm / 120.0	62.5	10546	11600