



# NYCWY

Low Voltage Cables



## DESCRIPTION

**}>Versatile use in power distribution**The NYCWY is one of the classic low-voltage cables according to VDE standard and is designed for rated voltages up to 1 kV. It is used wherever reliable energy distribution is required - in buildings, industrial plants, transformer stations, or directly underground. It can also be easily installed in cable trays, concrete environments, or underwater. The choice of materials ensures that this cable withstands even harsh conditions - without the need for additional protective measures.  
**Construction and materials**The design is technically well thought out: a copper conductor forms the core, surrounded by PVC insulation that is both mechanically robust and electrically safe. This is followed by a concentric conductor in a corrugated shape, which serves as a protective or return conductor depending on the application. The outer layer is a durable PVC sheath that protects the cable against moisture, pressure, and chemical influences.  
**Variants and cross-sections**The NYCWY is available in a wide range of versions - for example, 4x25/16, 4x70/35, or 4x185/95. The first number group indicates the number and cross-section of the current-carrying conductors, the second refers to the concentric conductor. This flexibility allows the cable to be adapted to different network requirements - from house connections to industrial power distribution.

## TECHNICAL DATA

Bending radius (mm)	15/12xD mm	CPR class	Eca
Maximal operating conductor temperature (°C)	70 °C	Maximal short-circuit temperature (°C)	160 °C
Minimal storage temperature (°C)	-35 °C	Minimal temperature for laying (°C)	-5 °C
Operating temperature range (°C)	-35-+70 °C	Rated voltage (kV)	0.6/1 kV



Self-extinguishing of  
single cable

IEC 60332-1-2

Test voltage (kV)

4 kV



**CROSS-SECTION DATA — 0.6/1 kV**

Cores & CS	Cond.	Shape	RI [Ohm/km]	Wi [mm]	Wm [mm]	Rbv [mm]	Ø [mm]	G [kg/km]
2x10/10	Cu	RE	1.83	1	1.8	12xD	19	670
2x16/16	Cu	RE	1.15	1	1.8	12xD	21	890
3x10/10	Cu	RE	1.83	1	1.8	12xD	20	773
3x10/10	Cu	RMV	1.83	1	1.8	12xD	21	817
3x16/16	Cu	RE	1.15	1	1.8	12xD	22	1045
3x16/16	Cu	RMV	1.15	1	1.8	12xD	22	1085
3x25/16	Cu	RMV	0.727	1.2	1.8	12xD	26	1490
3x25/25	Cu	RMV	0.727	1.2	1.8	12xD	26	1582
3x35/16	Cu	SM	0.524	1.2	1.8	12xD	26	1729
3x35/35	Cu	SM	0.524	1.2	1.8	12xD	26	1913
3x50/25	Cu	SM	0.387	1.4	1.9	12xD	29	2272
3x50/50	Cu	SM	0.387	1.4	1.9	12xD	30	2498
3x70/35	Cu	SM	0.268	1.4	2	12xD	33	3128
3x70/70	Cu	SM	0.268	1.4	2	12xD	34	3473
3x95/50	Cu	SM	0.193	1.6	2.2	12xD	38	4177
3x95/95	Cu	SM	0.193	1.6	2.2	12xD	38	4640
3x120/70	Cu	SM	0.153	1.6	2.3	12xD	41	5168
3x120/120	Cu	SM	0.153	1.6	2.3	12xD	41	5674
3x150/70	Cu	SM	0.124	1.8	2.4	12xD	46	6193
3x150/150	Cu	SM	0.124	1.8	2.4	12xD	47	6982
3x185/95	Cu	SM	0.0991	2	2.6	12xD	50	7689
3x185/185	Cu	SM	0.0991	2	2.6	12xD	51	8609
3x240/120	Cu	SM	0.0754	2.2	2.8	12xD	56	9950
4x10/10	Cu	RE	1.83	1	1.8	12xD	21	903
4x16/16	Cu	RE	1.15	1	1.8	12xD	24	1237
4x25/16	Cu	RMV	0.727	1.2	1.8	12xD	28	1801
4x25/25	Cu	RMV	0.727	1.2	1.8	12xD	28	1886
4x35/16	Cu	SM	0.524	1.2	1.8	12xD	28	2156
4x35/35	Cu	SM	0.524	1.2	1.8	12xD	28	2333
4x50/25	Cu	SM	0.387	1.4	2	12xD	33	2944
4x50/50	Cu	SM	0.387	1.4	2	12xD	34	3171
4x70/35	Cu	SM	0.268	1.4	2.1	12xD	36	3932
4x70/70	Cu	SM	0.268	1.4	2.1	12xD	37	4277
4x95/50	Cu	SM	0.193	1.6	2.3	12xD	42	5276
4x95/70	Cu	SM	0.193	1.6	2.3	12xD	42	5488
4x95/95	Cu	SM	0.193	1.6	2.3	12xD	42	5740



4x120/70	Cu	SM	0.153	1.6	2.4	12xD	46	6571
4x120/120	Cu	SM	0.153	1.6	2.4	12xD	46	7077
4x150/70	Cu	SM	0.124	1.8	2.6	12xD	51	7883
4x185/95	Cu	SM	0.0991	2	2.8	12xD	56	9892
4x185/185	Cu	SM	0.0991	2	2.8	12xD	57	10813
4x240/120	Cu	SM	0.0754	2.2	3	12xD	62	12658