

NYBY Cable



Construction

Conductor: Class 1 solid or Class 2 stranded copper

Insulation: PVC (Polyvinyl chloride)

Filler: PVC (Polyvinyl chloride)

Armour: Double galvanized steel tape

Outer Sheath: PVC (Polyvinyl chloride)

Outer Sheath Color: Black

Applications

NYBY electrical cables meet the stringent requirements of factories, power stations and industrial environments to provide an uninterrupted supply of power to machines and equipment. NYBY cables are suitable for installation in buildings, cable ducts as well as for burial in the ground.

Standards

Design Specification: DIN VDE 0276.

Conductor: DIN VDE 0295 / IEC 60228.

Insulation: IEC 60502-1.

Flame Retardancy: IEC 60332-1-2.

Environmental: RoHS 3 & REACH Compliant.



Specification

Voltage rating (U₀/U)	0.6/1 kV
Test Voltage	3.5KV
Permissible operating temperature of the conductor	+70°C
Max. temperature during short circuit (≤5S)	160°C
Cable laying temperature (not less than)	-5°C
Min. Bending radius	12x

Technical Data

Number of cores and nominal cross section	Overall diameter appr.	Cable weight appr.	Max. DC Resistance at 20	Max. Current Carrying Capacity at 30	
				in air	in ground
(mm ²)	(mm)	(kg/km)	(ohm/km)		
2 x 6	17.0	480	3.080	52	61
2 x 10	20.0	700	1.830	64	74
2 x 16	21.0	800	1.150	82	96
2 x 25	25.5	1200	0.727	94	102
2 x 35	27.5	1530	0.524	115	125
2 x 50	32.0	2000	0.387	140	147
2 x 70	38.0	2290	0.268	180	178
3 x 6	19.0	600	3.080	52	61
3 x 10	21.0	800	1.830	67	79
3 x 16	23.0	1150	1.150	85	99
3 x 25	27.0	1550	0.727	105	116
3 x 35	30.0	1950	0.524	130	138
3 x 50	34.0	2260	0.387	160	165
3 x 70	39.0	2860	0.268	200	205
3 x 95	45.0	3900	0.193	245	245
3 x 120	49.0	4900	0.153	285	280
3 x 150	54.0	5890	0.124	325	315
3 x 185	57.0	8320	0.099	370	355
3 x 240	64.0	10710	0.075	435	415
3 x 300	71.0	13085	0.060	500	465
4 x 6	20.0	660	3.080	45	53
4 x 10	22.0	950	1.830	58	68
4 x 16	25.0	1400	1.150	80	89
4 x 25	30.0	1900	0.727	105	116
4 x 35	32.5	2400	0.524	130	138
4 x 50	39.0	2950	0.387	160	165
4 x 70	43.0	3900	0.268	200	205
4 x 95	44.0	5050	0.193	245	250
4 x 120	47.5	6300	0.153	285	290
4 x 150	52.5	7650	0.124	325	315
4 x 185	58.0	9425	0.099	370	355
4 x 240	64.5	11985	0.075	435	415
4 x 300	70.5	14745	0.060	500	465