

## NYCY PVC PVC 0.6/1kV Power Cable



### Application

For use indoors, in cable ducts, outdoors and in ground for power plants, industrial plants, as well as in local power networks, if increased electrical protection is required.

### Standards

**VDE part 603, VDE Part 627**

**Flame Retardant according to IEC/EN 60332-1-2**

### Characteristics

**Voltage Rating** U<sub>o</sub>/U  
0.6/1kV

**Temperature Rating**  
Fixed: -20°C to +70°C  
Flexed: -5°C to +70°C

**Minimum Bending Radius**  
15 x overall diameter



### Construction

**Conductor**

RE: Class 1 solid copper conductor

**Insulation**

PVC (Polyvinyl Chloride)

**Binding Tape**

PVC (Polyvinyl Chloride)

**Concentric Conductor**

Copper wires and copper tape

**Sheath**

PVC (Polyvinyl Chloride)

**Sheath Colour**

Black



## Dimensions

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	CONDUCTOR TYPE	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
1	10/10	RE	11	280
1	16/16	RE	12	440
2	1.5/1.5	RE	13	200
2	2.5/2.5	RE	13.6	260
2	4/4	RE	15.5	360
2	6/6	RE	17	435
2	10/10	RE	18.5	520
2	16/16	RE	20.5	720
3	1.5/1.5	RE	13.2	220
3	2.5/2.5	RE	14.2	280
3	4/4	RE	16.3	390
3	6/6	RE	17.3	500
3	10/10	RE	20	680
3	16/16	RE	23	1010
4	1.5/1.5	RE	14.2	250
4	2.5/2.5	RE	15.3	340
4	4/4	RE	17.3	460
4	6/6	RE	18.5	580
4	10/10	RE	21	765
4	16/16	RE	23	1060
5	1.5/1.5	RE	15	330
5	2.5/2.5	RE	16	400
5	4/4	RE	19	550
5	6/6	RE	21	700
5	10/10	RE	23	1000
7	1.5/1.5	RE	15	320
7	1.5/2.5	RE	15.3	350
7	2.5/2.5	RE	17.5	450
7	4/4	RE	20	600
7	6/6	RE	22.5	790
8	1.5/1.5	RE	18.4	410
8	1.5/2.5	RE	17	400
8	2.5/2.5	RE	18	510
10	1.5/2.5	RE	18.4	410
10	2.5/4	RE	20.5	600
12	1.5/2.5	RE	19.4	470
12	2.5/4	RE	20.5	660
14	1.5/2.5	RE	20.5	520
14	2.5/4	RE	21.5	760
14	2.5/6	RE	22.5	800
16	1.5/4	RE	20	620
16	2.5/6	RE	22.5	800
19	1.5/4	RE	22.5	660
19	2.5/6	RE	23.5	950
21	1.5/6	RE	23	790
21	2.5/10	RE	26	1100

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	CONDUCTOR TYPE	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/k m
24	1.5/6	RE	25.5	860
24	2.5/10	RE	27.6	1150
30	1.5/6	RE	26.5	1020
30	2.5/10	RE	29.5	1610
40	1.5/10	RE	30	1280
40	2.5/10	RE	33	1660
52	1.5/10	RE	32	1600
52	2.5/10	RE	35	2000
61	1.5/10	RE	33	2000
61	2.5/10	RE	36	2280

## Conductors

Class 1 Solid Conductors for Single Core and Multi-Core Cables

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C	
	Circular, Annealed Copper Conductors	
	Plain Wires ohms/km	
1.5	1.2	1.1
2.5	1.8	1.7
4	2.8	2.6
6	4.2	3.9
10	7.0	6.5
16	11.2	10.4

## Electrical Characteristics

Current Carrying Capacity

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	CURRENT CARRYING CAPACITY Amps	
	In Ground At 20°C	In Air At 30°C
	1.5	27
2.5	36	26
4	47	34
6	59	44
10	79	60
16	102	80

The information contained within this datasheet is for guidance only and is subject to change without notice or liability. All the information is provided in good faith and is believed to be correct at the time of publication. When selecting cable accessories, please note that actual cable dimensions may vary due to manufacturing tolerances.