

NYYHY 450/750 Volt

SNI 04-6629.5/Manufacturing Specification

FLEXIBLE COPPER CONDUCTOR, PVC INSULATED AND SHEATHED CABLE



Applications:

- Power cord or internal wiring with medium mechanical stress for electrical equipments, machineries, luminaires and other portable appliances used in dry indoor premises.
- Permanent exposed wiring in humid environment, installation in tray or under plaster for industrial three phase 380 - 415 VAC or single phase 220 - 240 VAC multipurpose applications, inherently flame retardant in compliance with IEC 60332-1.

DIMENSIONAL & MECHANICAL DATA

2 Cores

Nominal cross-sectional area	Maximum Diameter of Wire	Nominal Thickness		Approximately		Minimum Bending Radius	Standard delivery Length *)
		Insulation	Outer Sheath	Overall Diameter	Cable Weight		
mm ²	mm	mm	mm	mm	kg/km	mm	m
0.75	0.20	0.6	0.8	6.3	54	44	100 or 2000
1	0.20	0.6	0.8	6.5	61	46	100 or 2000
1.5	0.25	0.7	0.8	7.5	82	52	100 or 2000
2.5	0.25	0.8	1.0	9.2	128	65	100 or 2000
4	0.30	0.8	1.0	10.2	171	72	2000
6	0.30	0.8	1.1	11.5	228	80	2000
10	0.40	1.0	1.3	14.8	381	104	1000
16	0.40	1.0	1.8	19.8	637	137	1000
25	0.40	1.2	1.8	23.8	944	167	1000
35	0.40	1.2	1.8	25.9	1,194	181	1000
50	0.40	1.4	1.8	30.8	1,693	216	1000

*) Standard delivery length: 100 m in coil and >100 m in drum.

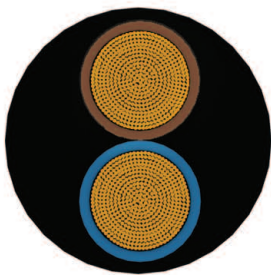
ELECTRICAL DATA

Nominal cross-sectional area	Resistance at 20 °C		Current Carrying Capacity at 30°C in AIR max	Short circuit current of conductor at 1.0 sec max
	DC conductor max	Insulation min		
mm ²	Ω/Km	MΩ.Km	A	kA
0.75	26.0	50	6	0.09
1	19.5	50	10	0.12
1.5	13.3	50	15	0.17
2.5	7.98	50	20	0.29
4	4.95	50	26	0.46
6	3.30	50	33	0.69
10	1.91	50	45	1.16
16	1.21	40	61	1.84
25	0.780	40	83	2.87
35	0.554	40	103	4.03
50	0.386	30	132	5.75

- Core identification : 2 cores by colours : either light blue, brown or light blue, black;
 3 cores by colours : either green-and yellow, light blue, brown, or light blue, black, brown;
 4 cores by colours : either green-and yellow, light blue, black, brown or light blue, black, brown, black or brown;
 5 cores by colours : either green-and yellow, light blue, black, brown, black or brown, or light blue, black, brown, black or brown, black or brown.
 >5 cores by colours : either green-and-yellow and black with white numbering printing or black with white numbering printing.

Colour of sheath : black colours.
 Test Voltage : 2500 VAC/ 5 minutes.

Other sizes, core identification and packing lengths are available upon request.



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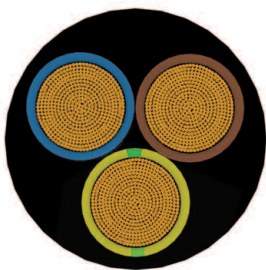
DIMENSIONAL & MECHANICAL DATA

3 Cores

Nominal cross-sectional area	Maximum Diameter of Wire	Nominal Thickness		Approximately		Minimum Bending Radius	Standard delivery Length *)
		Insulation	Outer Sheath	Overall Diameter	Cable Weight		
mm ²	mm	mm	mm	mm	kg/km	mm	m
0.75	0.20	0.6	0.8	6.6	64	46	100 or 2000
1	0.20	0.6	0.8	6.9	73	48	100 or 2000
1.5	0.25	0.7	0.9	8.1	104	57	100 or 2000
2.5	0.25	0.8	1.1	10.0	161	70	100 or 2000
4	0.30	0.8	1.1	11.1	217	78	2000
6	0.30	0.8	1.2	12.4	293	87	1000
10	0.40	1.0	1.4	16.0	489	112	1000
16	0.40	1.0	1.8	20.8	797	146	1000
25	0.40	1.2	1.8	25.4	1,189	178	1000
35	0.40	1.2	1.8	27.7	1,526	194	1000
50	0.40	1.4	1.8	32.9	2,172	230	1000
70	0.50	1.4	1.9	36.8	2,899	258	1000
95	0.50	1.6	2.0	43.4	3,865	304	1000
120	0.50	1.6	2.1	47.4	4,784	332	500
150	0.50	1.8	2.2	51.7	5,887	362	500
185	0.50	2.0	2.4	58.9	7,280	412	500
240	0.50	2.2	2.5	66.3	9,444	464	300

*) Standard delivery length: 100 m in coil and >100 m in drum.

ELECTRICAL DATA



Nominal cross-sectional area	Resistance at 20 °C		Current Carrying Capacity at 30°C in AIR max	Short circuit current of conductor at 1.0 sec max
	DC conductor max	Insulation min		
mm ²	Ω/Km	MΩ.Km	A	kA
0.75	26.0	50	6	0.09
1	19.5	50	10	0.12
1.5	13.3	50	15	0.17
2.5	7.98	50	20	0.29
4	4.95	50	26	0.46
6	3.30	50	33	0.69
10	1.91	50	45	1.16
16	1.21	40	61	1.84
25	0.780	40	83	2.87
35	0.554	40	103	4.03
50	0.386	30	132	5.75
70	0.272	30	165	8.05
95	0.206	30	197	10.92
120	0.161	30	235	13.80
150	0.129	20	264	17.25
185	0.106	20	297	21.27
240	0.0801	20	351	27.60

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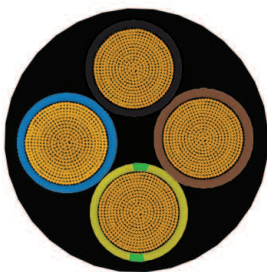
DIMENSIONAL & MECHANICAL DATA

4 Cores

Nominal cross-sectional area	Maximum Diameter of Wire	Nominal Thickness		Approximately		Minimum Bending Radius	Standard delivery Length *)
		Insulation	Outer Sheath	Overall Diameter	Cable Weight		
mm ²	mm	mm	mm	mm	kg/km	mm	m
0.75	0.20	0.6	0.8	7.3	77	51	100 or 2000
1	0.20	0.6	0.9	7.8	92	54	100 or 2000
1.5	0.25	0.7	1.0	9.1	130	64	1000
2.5	0.25	0.8	1.1	10.9	195	77	1000
4	0.30	0.8	1.2	12.3	273	86	1000
6	0.30	0.8	1.3	13.8	369	97	1000
10	0.40	1.0	1.5	17.7	616	124	1000
16	0.40	1.0	1.8	22.9	986	160	1000
25	0.40	1.2	1.8	28.0	1,478	196	1000
35	0.40	1.2	1.8	30.5	1,910	214	1000
50	0.40	1.4	1.8	36.6	2,743	256	1000
70	0.50	1.4	1.9	40.9	3,675	287	1000
95	0.50	1.6	2.0	48.3	4,887	338	500
120	0.50	1.6	2.1	52.8	6,063	370	500
150	0.50	1.8	2.2	57.8	7,502	405	500
185	0.50	2.0	2.4	65.6	9,220	459	300
240	0.50	2.2	2.5	74.0	12,010	518	300

*) Standard delivery length: 100 m in coil and >100 m in drum.

ELECTRICAL DATA



Nominal cross-sectional area	Resistance at 20 °C		Current Carrying Capacity at 30 °C in AIR max	Short circuit current of conductor at 1.0 sec max
	DC conductor max	Insulation min		
mm ²	Ω/Km	MΩ. Km	A	kA
0.75	26.0	50	6	0.09
1	19.5	50	10	0.12
1.5	13.3	50	15	0.17
2.5	7.98	50	20	0.29
4	4.95	50	26	0.46
6	3.30	50	33	0.69
10	1.91	50	45	1.15
16	1.21	40	61	1.84
25	0.780	40	83	2.87
35	0.554	40	103	4.03
50	0.386	30	132	5.75
70	0.272	30	165	8.05
95	0.206	30	197	10.92
120	0.161	30	235	13.80
150	0.129	20	364	17.25
185	0.106	20	297	21.27
240	0.0801	20	351	27.60

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DIMENSIONAL & MECHANICAL DATA

Control cable

Nominal cross-sectional area	Maximum Diameter of Wire	Nominal Thickness		Approximately		Minimum Bending Radius	Standard delivery Length *)
		Insulation	Outer Sheath	Overall Diameter	Cable Weight		
mm ²	mm	mm	mm	mm	kg/km	mm	m
5 x 0.75	0.20	0.6	0.9	8.1	98	57	2000
5 x 1	0.20	0.6	0.9	8.5	112	59	2000
5 x 1.5	0.25	0.7	1.1	10.1	164	71	2000
5 x 2.5	0.25	0.8	1.2	12.2	246	85	1000
5 x 4	0.30	0.8	1.2	13.5	334	95	1000
5 x 6	0.30	0.8	1.4	15.4	460	108	1000
5 x 10	0.40	1.0	1.6	19.7	767	138	500
7 x 0.75	0.20	0.6	1.0	9.1	125	63	2000
7 x 1	0.20	0.6	1.0	9.5	144	66	2000
7 x 1.5	0.25	0.7	1.2	11.3	203	79	2000
7 x 2.5	0.25	0.8	1.3	13.6	314	94	1000
10 x 0.75	0.20	0.6	1.1	11.7	183	81	2000
10 x 1	0.20	0.6	1.1	12.2	211	85	2000
10 x 1.5	0.25	0.7	1.3	14.5	305	106	1000
10 x 2.5	0.25	0.8	1.5	17.6	465	122	1000
12 x 0.75	0.20	0.6	1.1	12.0	208	84	1000
12 x 1	0.20	0.6	1.2	12.8	247	89	1000
12 x 1.5	0.25	0.7	1.3	14.9	349	104	1000
12 x 2.5	0.25	0.8	1.5	18.1	535	126	1000

*) Standard delivery length: 100 m in coil and >100 m in drum.

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Nominal cross-sectional area	Resistance at 20 °C		Current Carrying Capacity at 30 °C in AIR max	Short circuit current of conductor at 1.0 sec max
	DC conductor max	Insulation min		
mm ²	Ω/Km	MΩ.Km	A	kA
5 x 0.75	26.0	50	6	0.09
5 x 1.0	19.5	50	10	0.12
5 x 1.5	13.3	50	15	0.17
5 x 2.5	7.98	50	20	0.29
5 x 4	4.95	50	26	0.46
5 x 6	3.30	50	33	0.69
5 x 10	1.91	50	45	1.16
7 x 0.75	26.0	50	6	0.09
7 x 1.0	19.5	50	9	0.12
7 x 1.5	13.3	50	10	0.17
7 x 2.5	7.98	50	16	0.29
10 x 0.75	26.0	50	6	0.09
10 x 1.0	19.5	50	8	0.12
10 x 1.5	13.3	50	9	0.17
10 x 2.5	7.98	50	13	0.29
12 x 0.75	26.0	50	6	0.09
12 x 1.0	19.5	50	8	0.12
12 x 1.5	13.3	50	9	0.17
12 x 2.5	7.98	50	13	0.29

