

# NYKY 1 x (16-800) mm<sup>2</sup> 0.6/1 kV Cu / PVC / LS / PVC

(Copper Conductor, PVC Insulated, Lead Sheathed, PVC Sheathed)  
Standard Specification : IEC 60502-1

## Construction Data

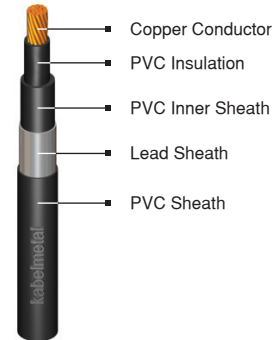
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
16	17.7	956
25	17.7	1,026
35	17.7	1,085
50	19.7	1,340
70	21.5	1,629
95	24.5	2,079
120	26.0	2,408
150	28.0	2,783
185	31.0	3,418
240	34.5	4,310
300	37.5	5,173
400	41.5	6,431
500	46.0	7,815
630	50.5	9,754
800	55.5	11,974

### Application :

For indoors, outdoors, in ground and in duct. Mainly on chemical industries, refineries, petrol stations and any other locations where there is a risk that solvent, fuel and other chemicals may penetrate and mechanical damage is not likely to occur.

### Special Features on Request :

- Fire Resistance
- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Nylon Coated



### Note :

#### Conductor Shape

16 sqmm supplied in non compacted circular stranded (rm) conductor shape  
25 - 800 sqmm supplied in non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape

#### Standard Packing

16 - 185 sqmm supplied in wooden drum @ 1000 m  
240 - 800 sqmm will be supplied in wooden drum on available length  
Length Tolerance per drum ± 2%

## Electrical Data

Conductor			Inductance		Current - Carrying Capacity at 30° C *				Short circuit current at 1 sec
Nom. Cross Sect. (mm <sup>2</sup> )	DC Resistance at 20°C	AC Resistance at 70°C	Trefoil formation	Flat formation	⊗⊗⊗		⊙⊙⊙		
	Max. (Ω/km)	Max. (Ω/km)	(mH/km)	(mH/km)	in air	in ground	in air	in ground	
					Max. (A)	Max. (A)	Max. (A)	Max. (A)	Max. (kA)
16	1.15	1.376	0.439	0.486	97	98	99	100	1.84
25	0.727	0.870	0.391	0.437	126	127	129	130	2.88
35	0.524	0.627	0.358	0.405	152	153	157	157	4.03
50	0.387	0.463	0.345	0.391	186	181	191	186	5.75
70	0.268	0.321	0.327	0.374	233	222	239	228	8.05
95	0.193	0.232	0.320	0.366	287	266	295	273	10.93
120	0.153	0.184	0.311	0.357	332	302	342	310	13.80
150	0.124	0.150	0.305	0.352	379	338	389	347	17.25
185	0.0991	0.120	0.301	0.347	438	382	450	391	21.28
240	0.0754	0.092	0.295	0.341	521	442	535	452	27.60
300	0.0601	0.075	0.291	0.337	599	497	613	507	34.50
400	0.0470	0.060	0.288	0.334	691	560	706	570	41.20
500	0.0366	0.048	0.281	0.328	795	629	810	639	51.50
630	0.0283	0.040	0.274	0.320	911	702	925	709	64.89
800	0.0221	0.033	0.270	0.316	1022	769	1032	772	82.40

\* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

# NYKY 2 x (1.5-300) mm<sup>2</sup> 0.6/1 kV Cu / PVC / LS / PVC

(Copper Conductor, PVC Insulated, Lead Sheathed, PVC Sheathed)  
Standard Specification : IEC 60502-1

## Construction Data

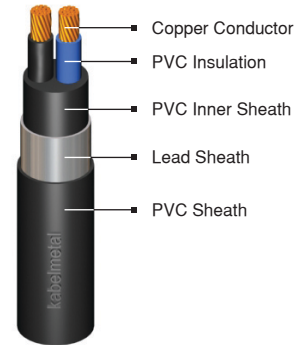
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
1.5	18.8	893
2.5	18.8	916
4	18.8	945
6	19.0	979
10	21.0	1,193
16	23.0	1,448
25	26.0	1,852
35	28.5	2,297
50	32.0	2,889
70	36.0	3,724
95	41.0	4,824
120	44.5	5,746
150	49.0	6,933
185	54.0	8,419
240	60.5	10,689
300	66.5	12,950

### Application :

For indoors, outdoors, in ground and in duct. Mainly on chemical industries, refineries, petrol stations and any other locations where there is a risk that solvent, fuel and other chemicals may penetrate and mechanical damage is not likely to occur.

### Special Features on Request :

- Fire Resistance
- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Nylon Coated



### Note :

#### Conductor Shape

1.5 - 10 sqmm supplied in solid (re) or non compacted circular stranded (rm) conductor shape

16 sqmm supplied in non compacted circular stranded (rm) conductor shape

25 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

#### Standard Packing

1.5 - 70 sqmm supplied in wooden drum @ 1000 m

95 - 300 sqmm will be supplied in wooden drum on available length

Length Tolerance per drum ± 2%

## Electrical Data

Nom. Cross Sect. (mm <sup>2</sup> )	Conductor		Inductance (mH/km)	Current - Carrying Capacity at 30°C *		Short circuit current at 1 sec (kA)
	DC Resistance at 20°C (Ω/km)	AC Resistance at 70°C (Ω/km)		in air (A)	in ground (A)	
1.5	12.1	14.478	0.351	24	27	0.17
2.5	7.41	8.866	0.315	32	36	0.29
4	4.61	5.516	0.303	42	47	0.46
6	3.08	3.685	0.288	53	60	0.69
10	1.83	2.190	0.269	73	81	1.15
16	1.15	1.376	0.255	96	105	1.84
25	0.727	0.870	0.255	126	135	2.88
35	0.524	0.627	0.246	155	164	4.03
50	0.387	0.464	0.247	186	193	5.75
70	0.268	0.321	0.238	235	238	8.05
95	0.193	0.232	0.238	286	283	10.93
120	0.153	0.184	0.233	332	323	13.80
150	0.124	0.150	0.233	378	362	17.25
185	0.0991	0.121	0.233	431	407	21.28
240	0.0754	0.093	0.232	508	471	27.60
300	0.0601	0.075	0.231	578	528	34.50

\* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

# NYKY 3 x (1.5-300) mm<sup>2</sup> 0.6/1 kV Cu / PVC / LS / PVC

(Copper Conductor, PVC Insulated, Lead Sheathed, PVC Sheathed)  
Standard Specification : IEC 60502-1

## Construction Data

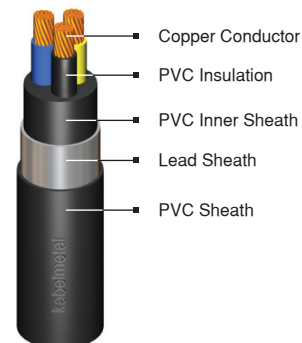
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
1.5	18.8	916
2.5	18.8	933
4	18.8	966
6	19.8	1,086
10	22.0	1,346
16	24.5	1,659
25	27.5	2,159
35	30.5	2,704
50	33.0	3,095
70	37.0	4,046
95	42.0	5,258
120	45.0	6,256
150	50.0	7,779
185	55.0	9,408
240	61.5	12,050
300	67.5	14,519

### Application :

For indoors, outdoors, in ground and in duct. Mainly on chemical industries, refineries, petrol stations and any other locations where there is a risk that solvent, fuel and other chemicals may penetrate and mechanical damage is not likely to occur.

### Special Features on Request :

- Fire Resistance
- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Nylon Coated



### Note :

#### Conductor Shape

1.5 - 10 sqmm supplied in solid (re) or non compacted circular stranded (rm) conductor shape

16 sqmm supplied in non compacted circular stranded (rm) conductor shape

25 - 35 sqmm supplied in compacted circular stranded (cm) conductor shape

50 - 300 sqmm supplied in sector shaped stranded (sm) conductor

#### Standard Packing

1.5 - 50 sqmm supplied in wooden drum @ 1000 m

70 - 300 sqmm will be supplied in wooden drum on available length

Length Tolerance per drum ± 2%

## Electrical Data

Nom. Cross Sect.	Conductor		Inductance	Current - Carrying Capacity		Short circuit current at 1 sec
	DC Resistance at 20°C	AC Resistance at 70°C		at 30°C *		
				in air	in ground	
(mm <sup>2</sup> )	Max. (Ω/km)	Max. (Ω/km)	Max. (A)	Max. (A)	Max. (kA)	
1.5	12.1	14.478	0.351	21	23	0.17
2.5	7.41	8.866	0.315	27	30	0.29
4	4.61	5.516	0.303	36	41	0.46
6	3.08	3.685	0.288	46	51	0.69
10	1.83	2.190	0.269	62	69	1.15
16	1.15	1.376	0.255	82	89	1.84
25	0.727	0.870	0.255	108	115	2.88
35	0.524	0.627	0.246	133	139	4.03
50	0.387	0.464	0.247	167	170	5.75
70	0.268	0.321	0.238	209	208	8.05
95	0.193	0.232	0.238	256	249	10.93
120	0.153	0.184	0.233	296	283	13.80
150	0.124	0.150	0.233	338	317	17.25
185	0.0991	0.121	0.233	390	358	21.28
240	0.0754	0.093	0.232	460	414	27.60
300	0.0601	0.075	0.231	526	465	34.50

\* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

# NYKY 4 x (1.5-300) mm<sup>2</sup> 0.6/1 kV Cu / PVC / LS / PVC

(Copper Conductor, PVC Insulated, Lead Sheathed, PVC Sheathed)  
Standard Specification : IEC 60502-1

## Construction Data

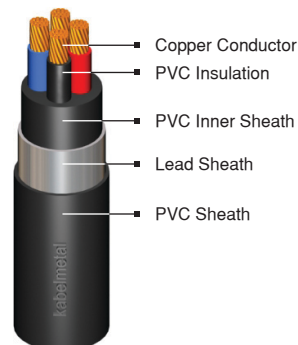
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
1.5	18.8	912
2.5	18.8	948
4	19.8	1,071
6	21.5	1,234
10	24.0	1,558
16	26.0	1,944
25	30.0	2,653
35	33.5	3,346
50	38.5	4,044
70	42.5	5,191
95	48.5	6,910
120	52.5	8,321
150	59.0	10,124
185	63.5	12,186
240	71.0	15,531
300	78.0	18,967

### Application :

For indoors, outdoors, in ground and in duct. Mainly on chemical industries, refineries, petrol stations and any other locations where there is a risk that solvent, fuel and other chemicals may penetrate and mechanical damage is not likely to occur.

### Special Features on Request :

- Fire Resistance
- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Nylon Coated



### Note :

#### Conductor Shape

1.5 - 10 sqmm supplied in solid (re) or non compacted circular stranded (rm) conductor shape

16 sqmm supplied in non compacted circular stranded (rm) conductor shape

25 - 35 sqmm supplied in compacted circular stranded (cm) conductor shape

50 - 300 sqmm supplied in sector shaped stranded (sm) conductor

#### Standard Packing

1.5 - 35 sqmm supplied in wooden drum @ 1000 m

50 - 300 sqmm will be supplied in wooden drum on available length

Length Tolerance per drum ± 2%

## Electrical Data

Nom. Cross Sect. (mm <sup>2</sup> )	Conductor		Inductance (mH/km)	Current - Carrying Capacity at 30°C *		Short circuit current at 1 sec (kA)
	DC Resistance at 20°C (Ω/km)	AC Resistance at 70°C (Ω/km)		in air (A)	in ground (A)	
1.5	12.1	14.478	0.340	24	27	0.17
2.5	7.41	8.866	0.315	31	36	0.29
4	4.61	5.516	0.303	42	47	0.46
6	3.08	3.685	0.288	52	59	0.69
10	1.83	2.190	0.269	71	78	1.15
16	1.15	1.376	0.255	94	101	1.84
25	0.727	0.870	0.255	126	130	2.88
35	0.524	0.627	0.246	154	156	4.03
50	0.387	0.464	0.247	177	175	5.75
70	0.268	0.321	0.238	221	214	8.05
95	0.193	0.232	0.238	273	257	10.93
120	0.153	0.184	0.233	315	291	13.80
150	0.124	0.150	0.233	365	329	17.25
185	0.0991	0.121	0.233	413	368	21.28
240	0.0754	0.093	0.232	489	426	27.60
300	0.0601	0.075	0.231	560	479	34.50

\* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

# NYKY 5 x (1.5-50) mm<sup>2</sup> 0.6/1 kV

Cu / PVC / LS / PVC

(Copper Conductor, PVC Insulated, Lead Sheathed, PVC Sheathed)

Standard Specification : IEC 60502-1

## Construction Data

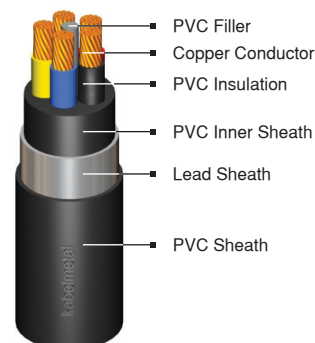
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
1.5	18.8	923
2.5	18.8	966
4	21.5	1,213
6	23.0	1,409
10	25.5	1,790
16	28.5	2,340
25	33.0	3,215
35	36.5	4,054
50	41.5	5,218

### Application :

For indoors, outdoors, in ground and in duct. Mainly on chemical industries, refineries, petrol stations and any other locations where there is a risk that solvent, fuel and other chemicals may penetrate and mechanical damage is not likely to occur.

### Special Features on Request :

- Fire Resistance
- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Nylon Coated



### Note :

#### Conductor Shape

1.5 - 10 sqmm supplied in solid (re) or non compacted circular stranded (rm) conductor shape

16 sqmm supplied in non compacted circular stranded (rm) conductor shape

25 - 50 sqmm supplied in compacted circular stranded (cm) conductor shape

#### Standard Packing

1.5 - 25 sqmm supplied in wooden drum @ 1000 m

35 - 50 sqmm will be supplied in wooden drum on available length

Length Tolerance per drum ± 2%

## Electrical Data

Nom. Cross Sect. (mm <sup>2</sup> )	Conductor		Inductance (mH/km)	Current - Carrying Capacity at 30°C *		Short circuit current at 1 sec (kA)
	DC Resistance at 20°C	AC Resistance at 70°C		in air	in ground	
1.5	12.1	14.478	0.340	24	28	0.17
2.5	7.41	8.866	0.304	32	36	0.29
4	4.61	5.516	0.303	43	48	0.46
6	3.08	3.685	0.288	54	60	0.69
10	1.83	2.190	0.269	74	79	1.15
16	1.15	1.376	0.255	98	102	1.84
25	0.727	0.870	0.255	131	132	2.88
35	0.524	0.627	0.246	160	158	4.03
50	0.387	0.464	0.247	194	186	5.75

\* Further information about rating factor for certain cable arrangement can be found on supplementary technical information