

# NYA 1.5 - 300 mm<sup>2</sup> 450/750 V

## Cu / PVC

(Copper Conductor, PVC Insulated)

Standard Specification : SNI 04-6629.3 : 2006

### Construction Data

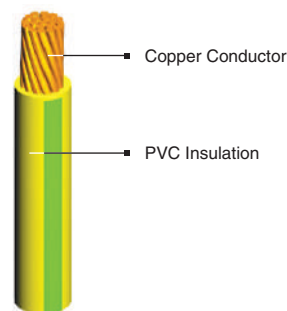
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
1.5	3.1	22
2.5	3.7	34
4	4.3	50
6	4.8	70
10	6.2	117
16	7.2	173
25	9.0	277
35	10.1	369
50	12.1	513
70	13.8	709
95	16.0	958
120	17.6	1,183
150	19.5	1,448
185	22.0	1,835
240	25.5	2,413
300	28.0	2,958

#### Application :

For building wire installed in conduit in dry location and interwiring in switch board and control panel.

#### Special Features on Request :

- Tinned Coated Copper Conductor
- Fire Resistance
- Oil Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Heat Resistance
- Nylon Coated



#### Note :

##### Conductor Shape

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

16 - 300 sqmm supplied in non compacted circular stranded (rm) conductor shape

##### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

##### Standard Packing

1.5 - 16 sqmm supplied in coil @ 100 m

25 - 300 sqmm supplied in wooden drum @ 1000 m

Length Tolerance per drum  $\pm 2\%$

### Electrical Data

Nom. Cross Sect. (mm <sup>2</sup> )	Conductor		Insulation	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	Insulation Resistance at 70°C		Capacity		
					in pipe	in air	
Max. (Ω/km)	Max. (Ω/km)	Min. (M.Ω.km)	Max. (A)	Max. (A)	Max. (kA)		
1.5	12.1	14.478	0.0100	0.320	15	24	0.17
2.5	7.41	8.866	0.0090	0.309	19	32	0.29
4	4.61	5.516	0.0077	0.290	25	42	0.46
6	3.08	3.685	0.0065	0.276	33	54	0.69
10	1.83	2.190	0.0065	0.274	45	73	1.15
16	1.15	1.376	0.0050	0.260	61	98	1.84
25	0.727	0.870	0.0050	0.257	83	129	2.88
35	0.524	0.627	0.0040	0.249	103	158	4.03
50	0.387	0.464	0.0045	0.248	132	197	5.75
70	0.268	0.321	0.0035	0.240	165	245	8.05
95	0.193	0.232	0.0035	0.239	207	290	10.93
120	0.153	0.184	0.0032	0.235	235	345	13.80
150	0.124	0.150	0.0032	0.235	-	390	17.25
185	0.0991	0.121	0.0032	0.235	-	445	21.28
240	0.0754	0.093	0.0032	0.233	-	525	27.60
300	0.0601	0.075	0.0030	0.232	-	605	34.50

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

# NYM 2 x (1.5 - 35) mm<sup>2</sup> 300/500 V

## Cu / PVC / PVC

(Copper Conductor, PVC Insulated, PVC Sheathed)

Standard Specification : SNI 04-6629.4 : 2006

### Construction Data

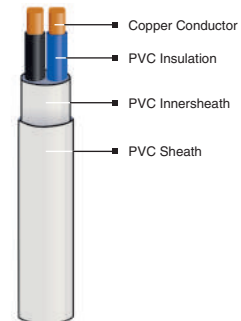
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
1.5	9.5	116
2.5	10.5	157
4	11.5	203
6	12.5	262
10	16.0	426
16	19.0	638
25	23.0	962
35	26.0	1,270

#### APPLICATION :

For building wire installed in conduit in dry location and interwiring in switch board and control panel, inherently flame retardant in compliance with IEC 60332-1.

#### Special Features on Request

- Tinned Coated Copper Conductor
- Fire Resistance
- Oil Resistance
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Nylon Coated



#### Note :

##### Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or non compacted circular stranded (rm) conductor shape  
16 - 35 sqmm supplied in non compacted circular stranded (rm) conductor shape

##### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

##### Standard Packing

1.5 - 4 sqmm supplied in coil @ 100 m or in wooden drum @ 1000/2000 m  
6 - 35 sqmm supplied in wooden drum @ 1000 m  
Length tolerance per drum ±2%.

### Electrical Data

Nom. Cross Sect. (mm <sup>2</sup> )	Conductor		Insulation	Inductance (mH/km)	Current-Carrying Capacity at 30° C * in air Max. (A)	Short circuit current at 1 sec Max. (kA)
	DC Resistance at 20° C Max. (Ω/km)	AC Resistance at 70° C Max. (Ω/km)	Insulation Resistance at 70° C Min. (M.Ω.km)			
1.5	12.1	14.478	0.010	0.329	19	0.17
2.5	7.41	8.866	0.009	0.318	25	0.29
4	4.61	5.516	0.0077	0.297	34	0.46
6	3.08	3.685	0.0065	0.281	44	0.69
10	1.83	2.190	0.0065	0.278	61	1.15
16	1.15	1.376	0.0052	0.255	82	1.84
25	0.727	0.870	0.0050	0.252	108	2.88
35	0.524	0.627	0.0044	0.244	134	4.03

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

# NYM 3 x (1.5 - 35) mm<sup>2</sup> 300/500 V

## Cu / PVC / PVC

(Copper Conductor, PVC Insulated, PVC Sheathed)

Standard Specification : SNI 04-6629.4 : 2006

### Construction Data

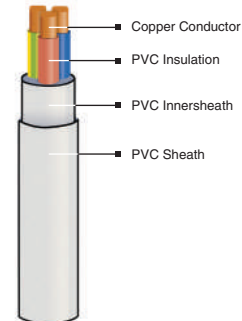
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
1.5	10.0	136
2.5	11.0	186
4	12.0	246
6	13.5	335
10	17.0	527
16	20.5	816
25	24.5	1,229
35	27.5	1,601

#### APPLICATION :

For building wire installed in conduit in dry location and interwiring in switch board and control panel, inherently flame retardant in compliance with IEC 60332-1.

#### Special Features on Request

- Tinned Coated Copper Conductor
- Fire Resistance
- Oil Resistance
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Nylon Coated



#### Note :

##### Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or non compacted circular stranded (rm) conductor shape  
16 - 35 sqmm supplied in non compacted circular stranded (rm) conductor shape

##### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

##### Standard Packing

1.5 - 4 sqmm supplied in coil @ 100 m or in wooden drum @ 1000/2000 m  
6 - 35 sqmm supplied in wooden drum @ 1000 m  
Length tolerance per drum  $\pm 2\%$ .

### Electrical Data

Nom. Cross Sect. (mm <sup>2</sup> )	Conductor		Insulation	Inductance (mH/km)	Current-Carrying Capacity at 30° C * in air Max. (A)	Short circuit current at 1 sec Max. (kA)
	DC Resistance at 20° C Max. (Ω/km)	AC Resistance at 70° C Max. (Ω/km)	Insulation Resistance at 70° C Min. (M.Ω.km)			
	1.5	12.1	14.478			
2.5	7.41	8.866	0.009	0.318	25	0.29
4	4.61	5.516	0.0077	0.297	34	0.46
6	3.08	3.685	0.0065	0.281	44	0.69
10	1.83	2.190	0.0065	0.278	61	1.15
16	1.15	1.376	0.0052	0.255	82	1.84
25	0.727	0.870	0.0050	0.252	108	2.88
35	0.524	0.627	0.0044	0.244	134	4.03

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

# NYM 4 x (1.5 - 35) mm<sup>2</sup> 300/500 V

## Cu / PVC / PVC

(Copper Conductor, PVC Insulated, PVC Sheathed)

Standard Specification : SNI 04-6629.4 : 2006

### Construction Data

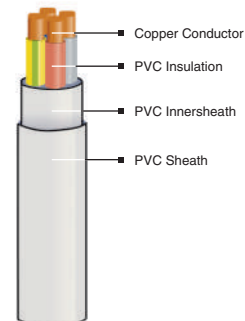
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
1.5	10.5	161
2.5	12.0	224
4	13.5	311
6	15.5	424
10	18.5	648
16	22.5	1,027
25	27.5	1,579
35	30.0	2,026

#### APPLICATION :

For building wire installed in conduit in dry location and interwiring in switch board and control panel, inherently flame retardant in compliance with IEC 60332-1.

#### Special Features on Request

- Tinned Coated Copper Conductor
- Fire Resistance
- Oil Resistance
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Nylon Coated



#### Note :

##### Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or non compacted circular stranded (rm) conductor shape  
16 - 35 sqmm supplied in non compacted circular stranded (rm) conductor shape

##### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

##### Standard Packing

1.5 - 2.5 sqmm supplied in coil @ 100 m or in wooden drum @ 1000/2000 m  
4 - 35 sqmm supplied in wooden drum @ 1000 m  
Length tolerance per drum ±2%.

### Electrical Data

Nom. Cross Sect. (mm <sup>2</sup> )	Conductor		Insulation	Inductance (mH/km)	Current-Carrying Capacity at 30° C * in air Max. (A)	Short circuit current at 1 sec Max. (kA)
	DC Resistance at 20° C Max. (Ω/km)	AC Resistance at 70° C Max. (Ω/km)	Insulation Resistance at 70° C Min. (M.Ω.km)			
	1.5	12.1	14.478			
2.5	7.41	8.866	0.009	0.318	25	0.29
4	4.61	5.516	0.0077	0.297	34	0.46
6	3.08	3.685	0.0065	0.281	44	0.69
10	1.83	2.190	0.0065	0.278	61	1.15
16	1.15	1.376	0.0052	0.255	82	1.84
25	0.727	0.870	0.0050	0.252	108	2.88
35	0.524	0.627	0.0044	0.244	134	4.03

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

# NYM 5 x (1.5 - 35) mm<sup>2</sup> 300/500 V Cu / PVC / PVC

(Copper Conductor, PVC Insulated, PVC Sheathed)

Standard Specification : SNI 04-6629.4 : 2006

## Construction Data

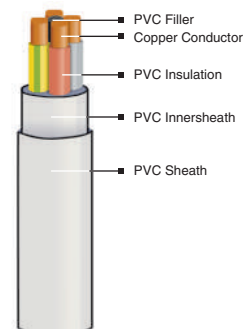
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
1.5	11.5	198
2.5	13.0	278
4	15.0	400
6	16.5	524
10	20.0	805
16	25.0	1,274
25	30.0	1,927
35	33.5	2,514

### APPLICATION :

For building wire installed in conduit in dry location and interwiring in switch board and control panel, inherently flame retardant in compliance with IEC 60332-1.

### Special Features on Request

- Tinned Coated Copper Conductor
- Fire Resistance
- Oil Resistance
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Nylon Coated



### Note :

#### Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or non compacted circular stranded (rm) conductor shape  
16 - 35 sqmm supplied in non compacted circular stranded (rm) conductor shape

#### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

#### Standard Packing

1.5 - 2.5 sqmm supplied in coil @ 100 m or in wooden drum @ 1000/2000 m  
4 - 35 sqmm supplied in wooden drum @ 1000 m  
Length tolerance per drum ±2%.

## Electrical Data

Nom. Cross Sect. (mm <sup>2</sup> )	Conductor		Insulation	Inductance (mH/km)	Current-Carrying Capacity at 30° C * in air Max. (A)	Short circuit current at 1 sec Max. (kA)
	DC Resistance at 20° C Max. (Ω/km)	AC Resistance at 70° C Max. (Ω/km)	Insulation Resistance at 70° C Min. (M.Ω.km)			
	1.5	12.1	14.478			
2.5	7.41	8.866	0.009	0.318	25	0.29
4	4.61	5.516	0.0077	0.297	34	0.46
6	3.08	3.685	0.0065	0.281	44	0.69
10	1.83	2.190	0.0065	0.278	61	1.15
16	1.15	1.376	0.0052	0.255	82	1.84
25	0.727	0.870	0.0050	0.252	108	2.88
35	0.524	0.627	0.0044	0.244	134	4.03

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

# NYY 1 x (1.5-800) mm<sup>2</sup> 0.6/1 kV

## Cu / PVC / PVC

(Copper Conductor, PVC Insulated, PVC Sheathed)

Standard Specification : SNI IEC 60502-1 : 2009

### Construction Data

Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
1.5	6.1	53
2.5	6.6	67
4	7.6	94
6	8.1	117
10	9.1	166
16	10.1	229
25	11.9	345
35	13.0	444
50	15.0	600
70	16.9	815
95	19.1	1,079
120	21.0	1,325
150	23.0	1,604
185	25.5	2,020
240	29.0	2,636
300	32.0	3,219
400	35.5	4,087
500	39.5	5,213
630	44.0	6,712
800	48.5	8,368

#### Application :

Power cable : Indoors, cable trunking, outdoors and buried in the ground, for power stations, industry and switchgear as well as for urban supply networks, if mechanical damage is unlikely.

#### Special Features on Request :

- Tinned Coated Copper Conductor
- 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

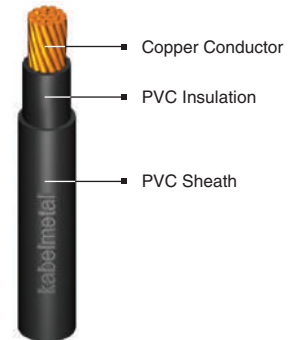
1.5 - 10 sqmm supplied in solid (re) or non compacted circular stranded (rm)  
 16 sqmm supplied in non compacted circular stranded (rm) conductor shape  
 25 - 800 sqmm supplied in non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape

##### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

##### Standard Packing

1.5 - 10 sqmm supplied in coil @ 100 m  
 16 - 300 sqmm supplied in wooden drum @ 1000 m  
 400 - 800 sqmm supplied in wooden drum on available length  
 Length Tolerance per drum ± 2%



### Electrical Data

Nom. Cross Sect. (mm <sup>2</sup> )	Conductor		Inductance		Current - Carrying Capacity at 30° C *				Short circuit current at 1 sec Max. (kA)
	DC Resistance at 20°C Max. (Ω/km)	AC Resistance at 70°C Max. (Ω/km)	Trefoil formation (mH/km)	Flat formation (mH/km)	⊗⊗⊗		⊙⊙⊙		
					in air	in ground	in air	in ground	
1.5	12.1	14.478	0.459	0.505	21	27	21	27	0.17
2.5	7.41	8.866	0.423	0.470	27	35	28	35	0.29
4	4.61	5.516	0.404	0.450	37	46	38	45	0.46
6	3.08	3.685	0.380	0.426	46	57	48	57	0.69
10	1.83	2.190	0.350	0.396	64	76	65	76	1.15
16	1.15	1.376	0.327	0.374	84	98	87	97	1.84
25	0.727	0.870	0.312	0.358	114	127	117	125	2.88
35	0.524	0.627	0.299	0.345	140	152	144	150	4.03
50	0.387	0.464	0.290	0.336	172	180	177	178	5.75
70	0.268	0.321	0.280	0.326	218	220	225	218	8.05
95	0.193	0.232	0.274	0.321	270	264	278	260	10.93
120	0.153	0.184	0.269	0.315	315	300	325	296	13.80
150	0.124	0.150	0.266	0.313	362	336	373	331	17.25
185	0.0991	0.121	0.264	0.310	420	379	433	374	21.28
240	0.0754	0.093	0.261	0.307	503	439	518	432	27.60
300	0.0601	0.075	0.258	0.305	580	494	598	486	34.50
400	0.0470	0.061	0.256	0.302	674	558	695	549	41.20
500	0.0366	0.049	0.252	0.299	781	629	806	618	51.50
630	0.0283	0.041	0.247	0.293	901	704	930	692	64.89
800	0.0221	0.035	0.242	0.289	1018	775	1052	762	82.40

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

# NYY 2 x (1.5-300) mm<sup>2</sup> 0.6/1 kV

**Cu / PVC / PVC**

(Copper Conductor, PVC Insulated, PVC Sheathed)

Standard Specification : SNI IEC 60502-1 : 2009

## Construction Data

Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
1.5	12.5	200
2.5	13.4	242
4	15.4	330
6	16.5	399
10	18.4	538
16	20.5	713
25	24.0	1,001
35	26.0	1,274
50	29.5	1,536
70	33.0	2,066
95	37.5	2,787
120	41.0	3,371
150	45.0	4,114
185	50.0	5,128
240	56.0	6,581
300	62.0	8,130

### Application :

Power cable : Indoors, cable trunking, outdoors and buried in the ground, for power stations, industry and switchgear as well as for urban supply networks, if mechanical damage is unlikely.

### Special Features on Request :

- Tinned Coated Copper Conductor
- 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

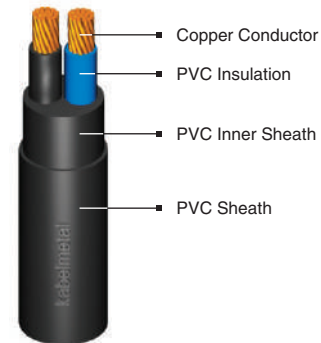
1.5 - 10 sqmm supplied in solid (re) or non compacted circular stranded (rm) conductor shape  
16 sqmm supplied in non compacted circular stranded (rm) conductor shape  
25 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

#### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

#### Standard Packing

1.5 - 120 sqmm supplied in wooden drum @ 1000 m  
150 - 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	AC Resistance at 70°C		Capacity		
				in air	in ground	
Max. (Ω/km)	Max. (Ω/km)	Max. (A)	Max. (A)	Max. (kA)		
1.5	12.1	14.478	0.328	23	27	0.17
2.5	7.41	8.866	0.304	30	36	0.29
4	4.61	5.516	0.303	40	47	0.46
6	3.08	3.685	0.288	51	59	0.69
10	1.83	2.190	0.269	70	80	1.15
16	1.15	1.376	0.255	93	104	1.84
25	0.727	0.870	0.255	123	134	2.88
35	0.524	0.627	0.246	151	162	4.03
50	0.387	0.464	0.247	182	191	5.75
70	0.268	0.321	0.238	230	236	8.05
95	0.193	0.232	0.238	280	281	10.93
120	0.153	0.184	0.233	325	321	13.80
150	0.124	0.150	0.233	371	361	17.25
185	0.0991	0.121	0.233	424	406	21.28
240	0.0754	0.093	0.232	501	470	27.60
300	0.0601	0.075	0.231	572	528	34.50

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

# NYY 3 x (1.5-300) mm<sup>2</sup> 0.6/1 kV

## Cu / PVC / PVC

(Copper Conductor, PVC Insulated, PVC Sheathed)

Standard Specification : SNI IEC 60502-1 : 2009

### Construction Data

Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
1.5	13.0	224
2.5	14.0	277
4	16.1	383
6	17.3	471
10	19.4	649
16	22.0	875
25	25.0	1,248
35	27.5	1,606
50	30.0	1,857
70	34.0	2,556
95	38.5	3,428
120	41.5	4,152
150	46.0	5,115
185	50.5	6,330
240	57.0	8,215
300	62.5	10,116

#### Application :

Power cable : Indoors, cable trunking, outdoors and buried in the ground, for power stations, industry and switchgear as well as for urban supply networks, if mechanical damage is unlikely.

#### Special Features on Request :

- Tinned Coated Copper Conductor
- 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

##### Tinned Coated Copper Conductor

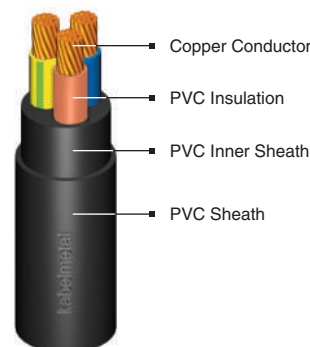
Electrical properties for tinned coated copper conductor will be submitted upon request

##### Standard Packing

1.5 - 95 sqmm supplied in wooden drum @ 1000 m

120 - 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	AC Resistance at 70°C		Capacity		
				in air	in ground	
Max. (Ω/km)	Max. (Ω/km)	Max. (A)	Max. (A)	Max. (kA)		
1.5	12.1	14.478	0.328	19	23	0.17
2.5	7.41	8.866	0.304	26	31	0.29
4	4.61	5.516	0.303	34	40	0.46
6	3.08	3.685	0.288	44	50	0.69
10	1.83	2.190	0.269	60	68	1.15
16	1.15	1.376	0.255	79	88	1.84
25	0.727	0.870	0.255	105	114	2.88
35	0.524	0.627	0.246	129	137	4.03
50	0.387	0.464	0.247	162	168	5.75
70	0.268	0.321	0.238	203	206	8.05
95	0.193	0.232	0.238	250	247	10.93
120	0.153	0.184	0.233	289	281	13.80
150	0.124	0.150	0.233	330	315	17.25
185	0.0991	0.121	0.233	381	356	21.28
240	0.0754	0.093	0.232	451	412	27.60
300	0.0601	0.075	0.231	517	464	34.50

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



# NYY 4 x (1.5-300) mm<sup>2</sup> 0.6/1 kV

Cu / PVC / PVC

(Copper Conductor, PVC Insulated, PVC Sheathed)

Standard Specification : SNI IEC 60502-1 : 2009

## Construction Data

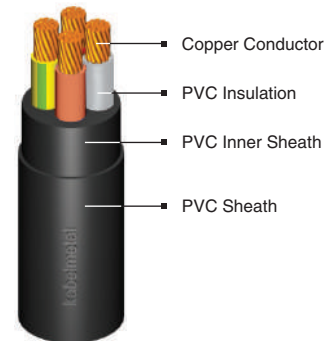
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
1.5	13.8	259
2.5	15.0	324
4	17.3	453
6	18.7	563
10	21.5	794
16	23.5	1,083
25	27.5	1,558
35	30.0	2,018
50	35.5	2,466
70	39.0	3,334
95	44.5	4,491
120	48.5	5,504
150	54.5	6,787
185	59.0	8,392
240	66.0	10,818
300	72.5	13,326

### Application :

Power cable : Indoors, cable trunking, outdoors and buried in the ground, for power stations, industry and switchgear as well as for urban supply networks, if mechanical damage is unlikely.

### Special Features on Request :

- Tinned Coated Copper Conductor
- 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

#### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

#### 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)		Capacity		
				in air (A)	in ground (A)	
1.5	12.1	14.478	0.328	22	27	0.17
2.5	7.41	8.866	0.304	29	35	0.29
4	4.61	5.516	0.303	39	46	0.46
6	3.08	3.685	0.288	50	57	0.69
10	1.83	2.190	0.269	68	77	1.15
16	1.15	1.376	0.255	90	99	1.84
25	0.727	0.870	0.255	121	128	2.88
35	0.524	0.627	0.246	149	154	4.03
50	0.387	0.464	0.247	173	173	5.75
70	0.268	0.321	0.238	215	212	8.05
95	0.193	0.232	0.238	266	255	10.93
120	0.153	0.184	0.233	308	289	13.80
150	0.124	0.150	0.233	357	327	17.25
185	0.0991	0.121	0.233	405	366	21.28
240	0.0754	0.093	0.232	482	425	27.60
300	0.0601	0.075	0.231	552	479	34.50

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

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

## Cu / PVC / PVC

(Copper Conductor, PVC Insulated, PVC Sheathed)

Standard Specification : SNI IEC 60502-1 : 2009

### Construction Data

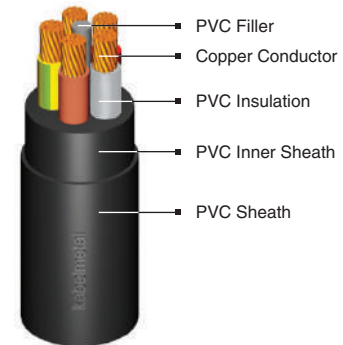
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
1.5	14.8	302
2.5	16.0	382
4	18.7	541
6	20.5	677
10	23.0	954
16	26.0	1,309
25	30.0	1,895
35	33.0	2,478
50	38.0	3,161

#### Application :

Power cable : Indoors, cable trunking, outdoors and buried in the ground, for power stations, industry and switchgear as well as for urban supply networks, if mechanical damage is unlikely.

#### Special Features on Request :

- Tinned Coated Copper Conductor
- 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

##### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

##### Standard Packing

1.5 - 50 sqmm supplied in wooden drum @ 1000 m  
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 Max. (kA)
	DC Resistance at 20°C Max. (Ω/km)	AC Resistance at 70°C Max. (Ω/km)		Capacity		
				in air Max. (A)	in ground Max. (A)	
1.5	12.1	14.478	0.328	23	27	0.17
2.5	7.41	8.866	0.304	30	36	0.29
4	4.61	5.516	0.303	41	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	131	2.88
35	0.524	0.627	0.246	155	157	4.03
50	0.387	0.464	0.247	189	185	5.75

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

# NYCY 1 x (1.5-800) mm<sup>2</sup> 0.6/1 kV Cu / PVC / CWS / PVC

(Copper Conductor, PVC Insulation, Copper Wire Screen, PVC Sheathed)  
Standard Specification : SNI IEC 60502-1 : 2009

## Construction Data

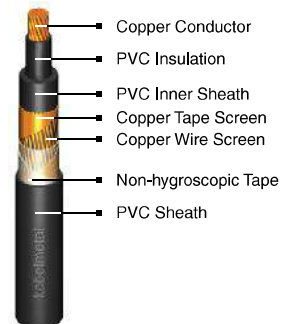
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
1,5 / 1,5	9,9	121
2,5 / 2,5	10,4	143
4 / 4	11,4	188
6 / 6	11,9	233
10 / 10	12,9	324
16 / 16	14,4	456
25 / 16	16,1	582
35 / 16	17,2	687
50 / 25	19,7	943
70 / 35	22,0	1,259
95 / 50	24,5	1,678
120 / 70	27,0	2,122
150 / 70	28,5	2,410
185 / 95	31,5	3,049
240 / 120	35,0	3,898
300 / 150	38,0	4,778
400 / 185	43,0	6,031
500 / 240	47,5	7,689
630 / 300	52,5	9,778
800 / 400	58,5	12,427

### Application :

For installation in the ground, indoors, cable trunking and outdoors if subsequent mechanical damage is likely. For urban networks, household feeders and street lighting.

### Special Features on Request :

- Tinned Coated Copper Conductor
- 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



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

### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

### Standard Packing

1.5 - 240 sqmm supplied in wooden drum @ 1000 m  
300 - 800 sqmm 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 of conductor 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)
1.5 / 1.5	12.1	14.478	0.555	0.601	24	27	24	28	0.17
2.5 / 2.5	7.41	8.866	0.514	0.561	31	35	32	36	0.29
4 / 4	4.61	5.516	0.485	0.531	41	46	42	47	0.46
6 / 6	3.08	3.685	0.457	0.503	52	57	53	59	0.69
10 / 10	1.83	2.190	0.420	0.466	70	76	72	78	1.15
16 / 16	1.15	1.376	0.399	0.445	94	99	96	101	1.84
25 / 16	0.727	0.870	0.373	0.419	124	127	127	130	2.88
35 / 16	0.524	0.627	0.355	0.401	151	152	155	156	4.03
50 / 25	0.387	0.463	0.345	0.391	185	181	190	185	5.75
70 / 35	0.268	0.321	0.329	0.375	232	221	237	226	8.05
95 / 50	0.193	0.232	0.322	0.368	284	263	290	267	10.93
120 / 70	0.153	0.184	0.316	0.363	329	297	334	300	13.80
150 / 70	0.124	0.150	0.310	0.357	373	331	378	333	17.25
185 / 95	0.0991	0.120	0.305	0.351	426	368	429	368	21.28
240 / 120	0.0754	0.092	0.298	0.344	495	416	495	412	27.60
300 / 150	0.0601	0.075	0.294	0.340	555	455	550	447	34.50
400 / 185	0.0470	0.060	0.293	0.339	624	497	615	485	41.20
500 / 240	0.0366	0.048	0.289	0.335	694	537	684	523	51.50
630 / 300	0.0283	0.039	0.281	0.328	771	578	761	565	64.89
800 / 400	0.0221	0.033	0.281	0.327	853	621	851	613	82.40

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

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

(Copper Conductor, PVC Insulated, Copper Wire Screen, PVC Sheathed)  
Standard Specification : SNI IEC 60502-1 : 2009

## Construction Data

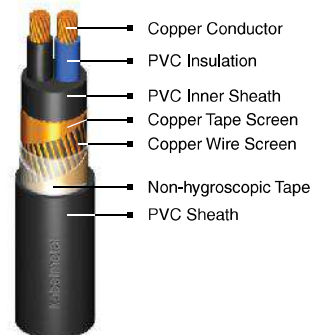
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
1.5 / 1.5	13.4	214
2.5 / 2.5	14.3	258
4 / 4	16.3	351
6 / 6	17.4	436
10 / 10	19.4	607
16 / 16	22.0	837
25 / 16	25.0	1,115
35 / 16	27.5	1,379
50 / 25	31.0	1,754
70 / 35	34.5	2,368
95 / 50	39.5	3,224
120 / 70	43.5	4,005
150 / 70	47.5	4,745
185 / 95	52.5	5,974
240 / 120	59.5	7,666
300 / 150	65.5	9,478

### Application :

For installation in the ground, indoors, cable trunking and outdoors if subsequent mechanical damage is likely. For urban networks, household feeders and street lighting.

### Special Features on Request :

- Tinned Coated Copper Conductor
- 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



### 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

### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

### Standard Packing

1.5 - 95 sqmm supplied in wooden drum @ 1000 m  
120 - 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 of conductor at 1 sec (kA)
	DC Resistance at 20°C (Ω/km)	AC Resistance at 70°C (Ω/km)		Capacity		
				in air (A)	in ground (A)	
1.5 / 1.5	12.1	14.478	0.328	24	28	0.17
2.5 / 2.5	7.41	8.866	0.304	31	37	0.29
4 / 4	4.61	5.516	0.303	42	48	0.46
6 / 6	3.08	3.685	0.288	53	60	0.69
10 / 10	1.83	2.190	0.269	72	81	1.15
16 / 16	1.15	1.376	0.255	96	106	1.84
25 / 16	0.727	0.870	0.255	126	136	2.88
35 / 16	0.524	0.627	0.246	154	164	4.03
50 / 25	0.387	0.464	0.247	187	194	5.75
70 / 35	0.268	0.321	0.238	234	239	8.05
95 / 50	0.193	0.232	0.238	285	284	10.93
120 / 70	0.153	0.184	0.233	332	324	13.80
150 / 70	0.124	0.150	0.233	377	362	17.25
185 / 95	0.0991	0.121	0.233	429	405	21.28
240 / 120	0.0754	0.093	0.232	503	466	27.60
300 / 150	0.0601	0.075	0.231	568	517	34.50

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

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

(Copper Conductor, PVC Insulated, Copper Wire Screen, PVC Sheathed)  
Standard Specification : SNI IEC 60502-1 : 2009

## Construction Data

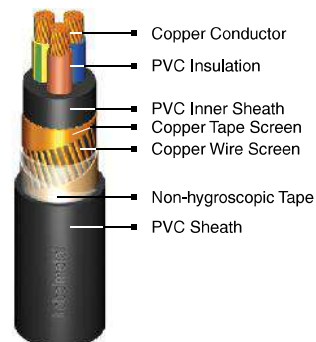
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
1.5 / 1.5	13.9	242
2.5 / 2.5	14.9	298
4 / 4	17.0	405
6 / 6	18.2	509
10 / 10	20.5	719
16 / 16	23.0	1,001
25 / 16	26.5	1,365
35 / 16	29.0	1,716
50 / 25	32.5	2,089
70 / 35	35.5	2,856
95 / 50	40.5	3,865
120 / 70	44.0	4,787
150 / 70	48.5	5,742
185 / 95	53.5	7,177
240 / 120	60.0	9,295
300 / 150	66.0	11,468

### Application :

For installation in the ground, indoors, cable trunking and outdoors if subsequent mechanical damage is likely. For urban networks, household feeders and street lighting.

### Special Features on Request :

- Tinned Coated Copper Conductor
- 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



### 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

### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

### Standard Packing

1.5 - 95 sqmm supplied in wooden drum @ 1000 m  
120 - 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 of conductor at 1 sec Max. (kA)
	DC Resistance at 20°C Max. (Ω/km)	AC Resistance at 70°C Max. (Ω/km)		in air Max. (A)	in ground Max. (A)	
1.5 / 1.5	12.1	14.478	0.328	20	24	0.17
2.5 / 2.5	7.41	8.866	0.304	27	31	0.29
4 / 4	4.61	5.516	0.303	35	41	0.46
6 / 6	3.08	3.685	0.288	45	51	0.69
10 / 10	1.83	2.190	0.269	61	69	1.15
16 / 16	1.15	1.376	0.255	82	90	1.84
25 / 16	0.727	0.870	0.255	108	115	2.88
35 / 16	0.524	0.627	0.246	132	139	4.03
50 / 25	0.387	0.464	0.247	167	171	5.75
70 / 35	0.268	0.321	0.238	208	208	8.05
95 / 50	0.193	0.232	0.238	255	250	10.93
120 / 70	0.153	0.184	0.233	296	284	13.80
150 / 70	0.124	0.150	0.233	337	317	17.25
185 / 95	0.0991	0.121	0.233	386	356	21.28
240 / 120	0.0754	0.093	0.232	454	409	27.60
300 / 150	0.0601	0.075	0.231	516	456	34.50

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

# NYCY 4 x (1.5-300) mm<sup>2</sup> 0.6/1 kV

## Cu / PVC / CWS / PVC

(Copper Conductor, PVC Insulated, Copper Wire Screen, PVC Sheathed)  
Standard Specification : SNI IEC 60502-1 : 2009

### Construction Data

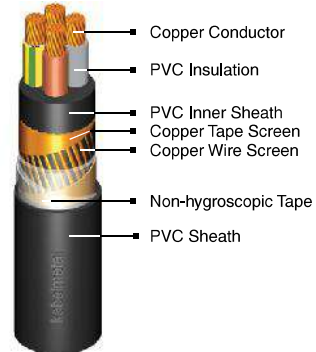
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
1.5 / 1.5	14.8	275
2.5 / 2.5	15.9	344
4 / 4	18.3	474
6 / 6	19.6	600
10 / 10	22.0	863
16 / 16	25.0	1,207
25 / 16	29.0	1,674
35 / 16	31.0	2,120
50 / 25	37.0	2,686
70 / 35	40.5	3,628
95 / 50	46.5	4,923
120 / 70	51.0	6,128
150 / 70	57.5	7,406
185 / 95	62.0	9,227
240 / 120	69.5	11,890
300 / 150	76.0	14,669

#### Application :

For installation in the ground, indoors, cable trunking and outdoors if subsequent mechanical damage is likely. For urban networks, household feeders and street lighting.

#### Special Features on Request :

- Tinned Coated Copper Conductor
- 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



#### 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

#### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

#### 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 of conductor at 1 sec (kA)
	DC Resistance at 20°C	AC Resistance at 70°C		in air	in ground	
1.5 / 1.5	12.1	14.478	0.328	23	28	0.17
2.5 / 2.5	7.41	8.866	0.304	30	36	0.29
4 / 4	4.61	5.516	0.303	41	47	0.46
6 / 6	3.08	3.685	0.288	52	59	0.69
10 / 10	1.83	2.190	0.269	70	78	1.15
16 / 16	1.15	1.376	0.255	93	101	1.84
25 / 16	0.727	0.870	0.255	125	130	2.88
35 / 16	0.524	0.627	0.246	152	156	4.03
50 / 25	0.387	0.464	0.247	176	175	5.75
70 / 35	0.268	0.321	0.238	220	214	8.05
95 / 50	0.193	0.232	0.238	272	257	10.93
120 / 70	0.153	0.184	0.233	315	292	13.80
150 / 70	0.124	0.150	0.233	363	328	17.25
185 / 95	0.0991	0.121	0.233	410	366	21.28
240 / 120	0.0754	0.093	0.232	484	421	27.60
300 / 150	0.0601	0.075	0.231	550	469	34.50

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

# NYCY 5 x (1.5-50) mm<sup>2</sup> 0.6/1 kV Cu / PVC / CWS / PVC

(Copper Conductor, PVC Insulated, Copper Wire Screen, PVC Sheathed)  
Standard Specification : SNI IEC 60502-1 : 2009

## Construction Data

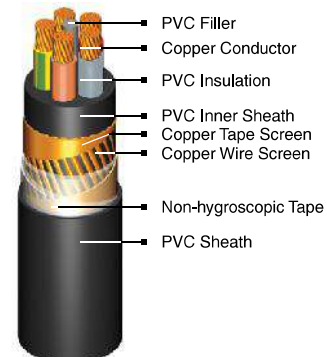
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
1.5 / 1.5	15.7	323
2.5 / 2.5	17.0	401
4 / 4	19.6	560
6 / 6	21.5	712
10 / 10	24.0	1,020
16 / 16	27.0	1,431
25 / 16	31.5	2,007
35 / 16	34.0	2,576
50 / 25	39.5	3,380

### Application :

For installation in the ground, indoors, cable trunking and outdoors if subsequent mechanical damage is likely. For urban networks, household feeders and street lighting.

### Special Features on Request :

- Tinned Coated Copper Conductor
- 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



### 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

### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

### Standard Packing

1.5 - 50 sqmm supplied in wooden drum @ 1000 m  
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 of conductor at 1 sec Max. (kA)
	DC Resistance at 20°C Max. (Ω/km)	AC Resistance at 70°C Max. (Ω/km)		in air Max. (A)	in ground Max. (A)	
1.5 / 1.5	12.1	14.478	0.328	24	28	0.17
2.5 / 2.5	7.41	8.866	0.304	31	37	0.29
4 / 4	4.61	5.516	0.303	42	48	0.46
6 / 6	3.08	3.685	0.288	53	60	0.69
10 / 10	1.83	2.190	0.269	73	79	1.15
16 / 16	1.15	1.376	0.255	97	103	1.84
25 / 16	0.727	0.870	0.255	129	132	2.88
35 / 16	0.524	0.627	0.246	158	158	4.03
50 / 25	0.387	0.464	0.247	192	186	5.75

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

# NYSY 1 x (1.5-800) mm<sup>2</sup> 0.6/1 kV Cu / PVC / CTS / PVC

(Copper Conductor, PVC Insulated, Copper Tape Screen, PVC Sheathed)  
Standard Specification : SNI IEC 60502-1 : 2009

## Construction Data

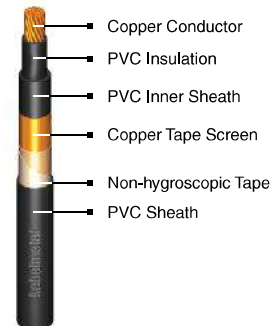
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
1.5	8.8	110
2.5	9.3	128
4	10.2	162
6	10.8	191
10	11.7	247
16	12.7	318
25	14.6	449
35	15.7	558
50	17.6	730
70	19.4	951
95	22.0	1,232
120	23.5	1,481
150	25.5	1,774
185	27.5	2,197
240	31.0	2,821
300	34.0	3,422
400	38.0	4,348
500	42.0	5,504
630	46.5	7,035
800	51.0	8,770

### Application :

For power plants and switchgear as well as for installation of sub-station; for installation indoors in confined spaces and cable channels because of small bending radius. As buried cable, because of its light weight preferred in where installation is difficult.

### Special Features on Request

- Tinned Coated Copper Conductor
- 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 - 800 sqmm supplied in non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape

#### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

#### Standard Packing

- 1.5 - 300 sqmm supplied in wooden drum @ 1000 m
- 400 - 800 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		Current - Carrying Capacity at 30° C *				Short circuit current of conductor at 1 sec Max. (kA)
	DC Resistance at 20°C (Ω/km)	AC Resistance at 70°C (Ω/km)	Trefoil formation (mH/km)	Flat formation (mH/km)	⊗		⊙		
					in air	in ground	in air	in ground	
1.5	12.1	14.478	0.531	0.577	23	26	23	27	0.17
2.5	7.41	8.866	0.491	0.537	30	35	31	36	0.29
4	4.61	5.516	0.464	0.510	40	45	40	47	0.46
6	3.08	3.685	0.436	0.483	50	56	51	58	0.69
10	1.83	2.190	0.401	0.447	68	75	70	77	1.15
16	1.15	1.376	0.374	0.420	89	97	92	100	1.84
25	0.727	0.870	0.352	0.399	119	125	122	129	2.88
35	0.524	0.627	0.336	0.382	146	150	150	155	4.03
50	0.387	0.463	0.323	0.369	178	179	183	184	5.75
70	0.268	0.321	0.307	0.353	224	219	230	225	8.05
95	0.193	0.232	0.298	0.345	276	262	284	269	10.93
120	0.153	0.184	0.289	0.335	320	299	329	306	13.80
150	0.124	0.150	0.285	0.331	366	335	376	343	17.25
185	0.0991	0.120	0.280	0.326	424	379	436	388	21.28
240	0.0754	0.093	0.273	0.319	505	439	518	448	27.60
300	0.0601	0.075	0.270	0.316	581	493	596	503	34.50
400	0.0470	0.060	0.268	0.314	672	557	689	567	41.20
500	0.0366	0.049	0.263	0.310	776	626	793	636	51.50
630	0.0283	0.040	0.257	0.303	891	699	909	709	64.89
800	0.0221	0.034	0.253	0.299	1003	768	1020	776	82.40

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



# NYSY 2 x (1.5-300) mm<sup>2</sup> 0.6/1 kV

## Cu / PVC / CTS / PVC

(Copper Conductor, PVC Insulated, Copper Tape Screen, PVC Sheathed)  
Standard Specification : SNI IEC 60502-1 : 2009

### Construction Data

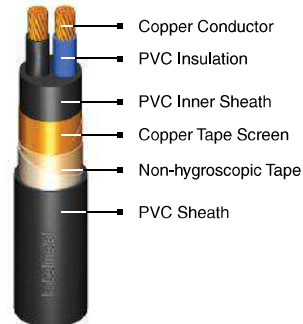
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
1.5	12.2	206
2.5	13.2	249
4	15.1	336
6	16.3	405
10	18.2	543
16	20.5	716
25	23.5	1,001
35	26.0	1,270
50	29.0	1,565
70	33.0	2,099
95	37.5	2,821
120	40.5	3,409
150	45.0	4,176
185	50.0	5,169
240	56.0	6,627
300	62.0	8,203

#### Application :

For power plants and switchgear as well as for installation of sub-station; for installation indoors in confined spaces and cable channels because of small bending radius. As buried cable, because of its light weight preferred in where installation is difficult.

#### Special Features on Request :

- Tinned Coated Copper Conductor
- 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

##### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

##### Standard Packing

1.5 - 120 sqmm supplied in wooden drum @ 1000 m  
150 - 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 of conductor 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	0.328	23	28	0.17
2.5	7.41	8.866	0.304	31	37	0.29
4	4.61	5.516	0.303	41	48	0.46
6	3.08	3.685	0.288	52	60	0.69
10	1.83	2.190	0.269	71	81	1.15
16	1.15	1.376	0.255	94	105	1.84
25	0.727	0.870	0.255	123	135	2.88
35	0.524	0.627	0.246	152	163	4.03
50	0.387	0.464	0.247	183	193	5.75
70	0.268	0.321	0.238	231	238	8.05
95	0.193	0.232	0.238	282	283	10.93
120	0.153	0.184	0.233	327	323	13.80
150	0.124	0.150	0.233	373	362	17.25
185	0.0991	0.121	0.233	426	407	21.28
240	0.0754	0.093	0.232	502	470	27.60
300	0.0601	0.075	0.231	572	527	34.50

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

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

(Copper Conductor, PVC Insulated, Copper Tape Screen, PVC Sheathed)  
Standard Specification : SNI IEC 60502-1 : 2009

## Construction Data

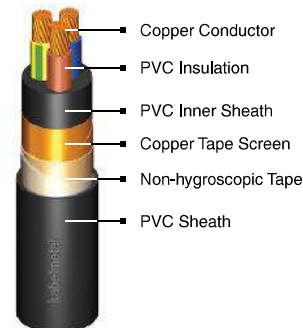
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
1.5	12.8	232
2.5	13.8	285
4	15.9	392
6	17.1	480
10	19.2	657
16	21.5	883
25	25.0	1,254
35	27.5	1,610
50	30.0	1,900
70	34.0	2,587
95	38.5	3,462
120	41.0	4,189
150	46.0	5,173
185	50.5	6,371
240	57.0	8,256
300	62.0	10,161

### Application :

For power plants and switchgear as well as for installation of sub-station; for installation indoors in confined spaces and cable channels because of small bending radius. As buried cable, because of its light weight preferred in where installation is difficult.

### Special Features on Request

- Tinned Coated Copper Conductor
- 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

#### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

#### Standard Packing

- 1.5 - 95 sqmm supplied in wooden drum @ 1000 m
- 120 - 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 of conductor at 1 sec (kA)
	DC Resistance at 20°C	AC Resistance at 70°C		in air	in ground	
1.5	12.1	14.478	0.328	20	24	0.17
2.5	7.41	8.866	0.304	26	31	0.29
4	4.61	5.516	0.303	35	41	0.46
6	3.08	3.685	0.288	44	51	0.69
10	1.83	2.190	0.269	60	68	1.15
16	1.15	1.376	0.255	80	89	1.84
25	0.727	0.870	0.255	106	114	2.88
35	0.524	0.627	0.246	130	138	4.03
50	0.387	0.464	0.247	163	169	5.75
70	0.268	0.321	0.238	204	207	8.05
95	0.193	0.232	0.238	251	248	10.93
120	0.153	0.184	0.233	291	283	13.80
150	0.124	0.150	0.233	332	316	17.25
185	0.0991	0.121	0.233	383	357	21.28
240	0.0754	0.093	0.232	452	413	27.60
300	0.0601	0.075	0.231	518	464	34.50

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

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

(Copper Conductor, PVC Insulated, Copper Tape Screen, PVC Sheathed)  
Standard Specification : SNI IEC 60502-1 : 2009

## Construction Data

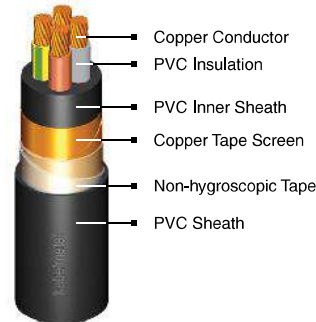
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
1.5	13.6	267
2.5	14.7	333
4	17.1	463
6	18.5	573
10	21.0	805
16	23.5	1,093
25	27.0	1,568
35	30.0	2,026
50	35.5	2,514
70	39.0	3,369
95	44.5	4,532
120	48.5	5,565
150	54.5	6,832
185	59.0	8,435
240	66.0	10,866
300	72.5	13,378

### Application :

For power plants and switchgear as well as for installation of sub-station; for installation indoors in confined spaces and cable channels because of small bending radius. As buried cable, because of its light weight preferred in where installation is difficult.

### Special Features on Request :

- Tinned Coated Copper Conductor
- 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

#### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

#### 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  $\pm 2\%$

## Electrical Data

Nom. Cross Sect. (mm <sup>2</sup> )	Conductor		Inductance (mH/km)	Current - Carrying Capacity at 30°C *		Short circuit current of conductor at 1 sec (kA)
	DC Resistance at 20°C (Max. (Ω/km))	AC Resistance at 70°C (Max. (Ω/km))		in air (Max. (A))	in ground (Max. (A))	
1.5	12.1	14.478	0.328	22	27	0.17
2.5	7.41	8.866	0.304	29	36	0.29
4	4.61	5.516	0.303	40	47	0.46
6	3.08	3.685	0.288	50	58	0.69
10	1.83	2.190	0.269	69	78	1.15
16	1.15	1.376	0.255	91	100	1.84
25	0.727	0.870	0.255	122	130	2.88
35	0.524	0.627	0.246	150	155	4.03
50	0.387	0.464	0.247	174	174	5.75
70	0.268	0.321	0.238	217	213	8.05
95	0.193	0.232	0.238	268	256	10.93
120	0.153	0.184	0.233	310	290	13.80
150	0.124	0.150	0.233	359	328	17.25
185	0.0991	0.121	0.233	407	367	21.28
240	0.0754	0.093	0.232	483	426	27.60
300	0.0601	0.075	0.231	554	479	34.50

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

# NYSY 5 x (1.5-50) mm<sup>2</sup> 0.6/1 kV Cu / PVC / CTS / PVC

(Copper Conductor, PVC Insulated, Copper Tape Screen, PVC Sheathed)  
Standard Specification : SNI IEC 60502-1 : 2009

## Construction Data

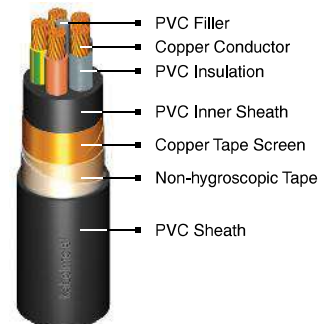
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
1.5	14.6	311
2.5	15.8	393
4	18.5	552
6	20.0	688
10	23.0	966
16	25.5	1,321
25	29.5	1,906
35	33.0	2,488
50	38.0	3,213

### Application :

For power plants and switchgear as well as for installation of sub-station; for installation indoors in confined spaces and cable channels because of small bending radius. As buried cable, because of its light weight preferred in where installation is difficult.

### Special Features on Request

- Tinned Coated Copper Conductor
- 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

#### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

#### Standard Packing

1.5 - 50 sqmm supplied in wooden drum @ 1000 m  
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 of conductor at 1 sec (kA)
	DC Resistance at 20°C	AC Resistance at 70°C		in air	in ground	
1.5	12.1	14.478	0.328	23	28	0.17
2.5	7.41	8.866	0.304	30	36	0.29
4	4.61	5.516	0.303	41	48	0.46
6	3.08	3.685	0.288	52	59	0.69
10	1.83	2.190	0.269	71	79	1.15
16	1.15	1.376	0.255	95	102	1.84
25	0.727	0.870	0.255	127	132	2.88
35	0.524	0.627	0.246	156	158	4.03
50	0.387	0.464	0.247	190	186	5.75

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

# NYB(AL)Y 1 x (16-800) mm<sup>2</sup> 0.6/1 kV Cu / PVC / ATA / PVC

(Copper Conductor, PVC Insulated, Aluminium Tape Armor, PVC Sheathed)  
Standard Specification : SNI IEC 60502-1 : 2009

## Construction Data

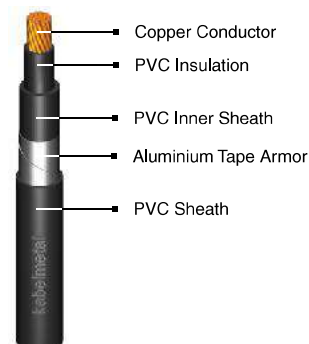
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
16	15.4	396
25	16.2	497
35	17.3	608
50	19.3	785
70	21.5	1,011
95	23.5	1,298
120	25.0	1,552
150	27.0	1,850
185	29.5	2,279
240	32.5	2,926
300	35.5	3,521
400	39.5	4,476
500	43.5	5,645
630	48.0	7,190
800	53.0	8,941

### Application :

For installation indoors, cable channels and in ground, for industry installations, switchgear, and power station, if there is a risk that low mechanical damage may occur.

### Special Features on Request :

- Tinned Coated Copper Conductor
- 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



### 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

#### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

#### Standard Packing

16 - 300 sqmm supplied in wooden drum @ 1000 m  
400 - 800 sqmm supplied wooden drum on available length  
Length Tolerance per drum ± 2%

## Electrical Data

Nom. Cross Sect. (mm <sup>2</sup> )	Conductor		Inductance		Current - Carrying Capacity at 30° C *				Short circuit current at 1 sec Max. (kA)
	DC Resistance at 20°C Max. (Ω/km)	AC Resistance at 70°C Max. (Ω/km)	Trefoil formation  (mH/km)	Flat formation  (mH/km)					
					in air Max. (A)	in ground Max. (A)	in air Max. (A)	in ground Max. (A)	
16	1.15	1.376	0.412	0.458	94	98	97	101	1.84
25	0.727	0.870	0.374	0.420	124	127	127	131	2.88
35	0.524	0.627	0.356	0.402	151	152	155	156	4.03
50	0.387	0.463	0.341	0.387	184	180	189	185	5.75
70	0.268	0.321	0.324	0.370	230	221	236	226	8.05
95	0.193	0.232	0.313	0.359	282	264	289	269	10.93
120	0.153	0.184	0.303	0.349	326	299	334	305	13.80
150	0.124	0.150	0.298	0.344	372	335	380	341	17.25
185	0.0991	0.120	0.291	0.338	428	377	437	383	21.28
240	0.0754	0.093	0.285	0.331	506	434	515	438	27.60
300	0.0601	0.075	0.279	0.325	578	485	586	488	34.50
400	0.0470	0.060	0.278	0.324	663	542	668	542	41.20
500	0.0366	0.049	0.272	0.318	757	603	757	598	51.50
630	0.0283	0.040	0.265	0.311	858	665	852	654	64.89
800	0.0221	0.034	0.260	0.306	952	720	938	701	82.40

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

# NYBY 2 x (1.5-300) mm<sup>2</sup> 0.6/1 kV

## Cu / PVC / STA / PVC

(Copper Conductor, PVC Insulated, Galvanized Steel Tape Armor, PVC Sheathed)

Standard Specification : SNI IEC 60502-1 : 2009

### Construction Data

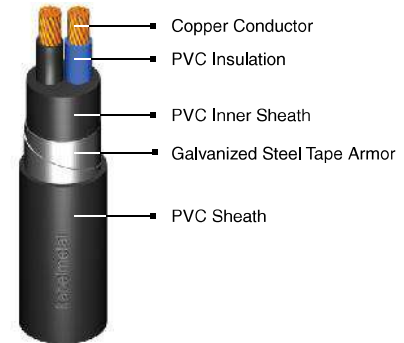
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
1.5	14.4	300
2.5	14.4	319
4	15.6	384
6	16.7	457
10	18.6	602
16	21.0	782
25	24.0	1,078
35	26.0	1,355
50	29.5	1,662
70	33.0	2,209
95	38.0	2,964
120	42.5	3,960
150	46.5	4,764
185	51.5	5,820
240	57.5	7,358
300	63.5	9,012

#### Application :

For installation indoors, cable channels and in ground, for industry installations, switchgear, and power station, if there is a risk that low mechanical damage may occur.

#### Special Features on Request :

- Tinned Coated Copper Conductor
- 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



#### 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

##### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

##### Standard Packing

1.5 - 120 sqmm supplied in wooden drum @ 1000 m  
 150 - 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	AC Resistance at 70°C		Capacity		
				in air	in ground	
Max. (Ω/km)	Max. (Ω/km)	Max. (A)	Max. (A)	Max. (kA)		
1.5	12.1	14.478	0.340	23	27	0.17
2.5	7.41	8.866	0.304	31	36	0.29
4	4.61	5.516	0.303	41	48	0.46
6	3.08	3.685	0.288	52	60	0.69
10	1.83	2.190	0.269	71	81	1.15
16	1.15	1.376	0.255	94	105	1.84
25	0.727	0.870	0.255	124	135	2.88
35	0.524	0.627	0.246	152	163	4.03
50	0.387	0.464	0.247	184	193	5.75
70	0.268	0.321	0.238	232	238	8.05
95	0.193	0.232	0.238	282	283	10.93
120	0.153	0.184	0.233	330	324	13.80
150	0.124	0.150	0.233	376	363	17.25
185	0.0991	0.121	0.233	430	408	21.28
240	0.0754	0.093	0.232	506	472	27.60
300	0.0601	0.075	0.231	576	528	34.50

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

# NYBY 3 x (1.5-300) mm<sup>2</sup> 0.6/1 kV

## Cu / PVC / STA / PVC

(Copper Conductor, PVC Insulated, Galvanized Steel Tape Armor, PVC Sheathed)

Standard Specification : SNI IEC 60502-1 : 2009

### Construction Data

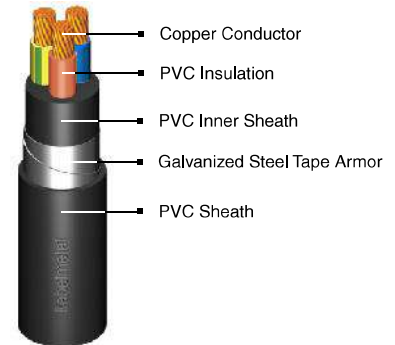
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
1.5	14.4	308
2.5	14.4	335
4	16.3	442
6	17.5	534
10	19.6	719
16	22.0	953
25	25.5	1,336
35	28.0	1,701
50	30.5	1,999
70	34.5	2,700
95	40.0	3,974
120	43.0	4,739
150	47.5	5,765
185	52.5	7,046
240	58.5	9,015
300	64.0	10,964

#### Application :

For installation indoors, cable channels and in ground, for industry installations, switchgear, and power station, if there is a risk that low mechanical damage may occur.

#### Special Features on Request :

- Tinned Coated Copper Conductor
- 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



#### 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

##### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

##### Standard Packing

1.5 - 95 sqmm supplied in wooden drum @ 1000 m  
 120 - 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 at 30°C *		Short circuit current at 1 sec
	DC Resistance at 20°C	AC Resistance at 70°C		Capacity		
				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	0.340	20	23	0.17
2.5	7.41	8.866	0.304	26	31	0.29
4	4.61	5.516	0.303	35	41	0.46
6	3.08	3.685	0.288	44	51	0.69
10	1.83	2.190	0.269	61	69	1.15
16	1.15	1.376	0.255	80	89	1.84
25	0.727	0.870	0.255	106	115	2.88
35	0.524	0.627	0.246	131	138	4.03
50	0.387	0.464	0.247	164	170	5.75
70	0.268	0.321	0.238	205	207	8.05
95	0.193	0.232	0.238	255	249	10.93
120	0.153	0.184	0.233	294	284	13.80
150	0.124	0.150	0.233	336	317	17.25
185	0.0991	0.121	0.233	386	358	21.28
240	0.0754	0.093	0.232	455	413	27.60
300	0.0601	0.075	0.231	522	465	34.50

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

# NYBY 4 x (1.5-300) mm<sup>2</sup> 0.6/1 kV

## Cu / PVC / STA / PVC

(Copper Conductor, PVC Insulated, Galvanized Steel Tape Armor, PVC Sheathed)

Standard Specification : SNI IEC 60502-1 : 2009

### Construction Data

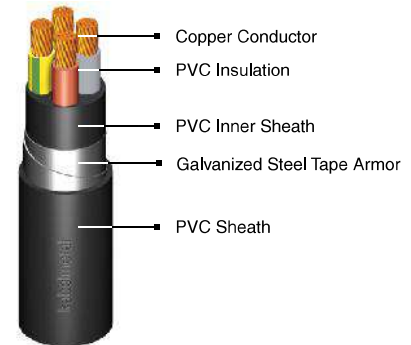
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
1.5	14.4	317
2.5	15.2	379
4	17.5	518
6	18.9	633
10	21.5	873
16	24.0	1,170
25	27.5	1,658
35	30.5	2,126
50	36.0	2,632
70	40.5	3,870
95	46.0	5,125
120	50.0	6,190
150	56.5	7,563
185	60.5	9,199
240	68.0	11,751
300	74.0	14,348

#### Application :

For installation indoors, cable channels and in ground, for industry installations, switchgear, and power station, if there is a risk that low mechanical damage may occur.

#### Special Features on Request :

- Tinned Coated Copper Conductor
- 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



#### 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

##### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

##### 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 Max. (kA)
	DC Resistance at 20°C Max. (Ω/km)	AC Resistance at 70°C Max. (Ω/km)		Capacity		
				in air Max. (A)	in ground Max. (A)	
1.5	12.1	14.478	0.328	22	27	0.17
2.5	7.41	8.866	0.304	30	36	0.29
4	4.61	5.516	0.303	40	47	0.46
6	3.08	3.685	0.288	51	58	0.69
10	1.83	2.190	0.269	69	78	1.15
16	1.15	1.376	0.255	92	100	1.84
25	0.727	0.870	0.255	123	130	2.88
35	0.524	0.627	0.246	151	156	4.03
50	0.387	0.464	0.247	174	175	5.75
70	0.268	0.321	0.238	220	215	8.05
95	0.193	0.232	0.238	271	257	10.93
120	0.153	0.184	0.233	313	292	13.80
150	0.124	0.150	0.233	362	329	17.25
185	0.0991	0.121	0.233	411	369	21.28
240	0.0754	0.093	0.232	487	427	27.60
300	0.0601	0.075	0.231	557	480	34.50

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



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

## Cu / PVC / STA / PVC

(Copper Conductor, PVC Insulated, Galvanized Steel Tape Armor, PVC Sheathed)

Standard Specification : SNI IEC 60502-1 : 2009

### Construction Data

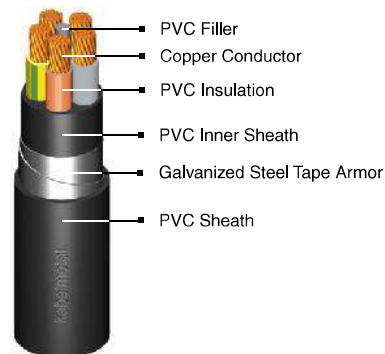
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
1.5	15.0	357
2.5	16.3	443
4	18.9	612
6	20.5	754
10	23.5	1,041
16	26.0	1,406
25	30.0	2,006
35	33.5	2,599
50	38.5	3,342

#### Application :

For installation indoors, cable channels and in ground, for industry installations, switchgear, and power station, if there is a risk that low mechanical damage may occur.

#### Special Features on Request :

- Tinned Coated Copper Conductor
- 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



#### 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

##### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

##### Standard Packing

1.5 - 50 sqmm supplied in wooden drum @ 1000 m  
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 Max. (kA)
	DC Resistance at 20°C Max. (Ω/km)	AC Resistance at 70°C Max. (Ω/km)		Capacity		
				in air Max. (A)	in ground Max. (A)	
1.5	12.1	14.478	0.328	23	28	0.17
2.5	7.41	8.866	0.304	31	36	0.29
4	4.61	5.516	0.303	42	48	0.46
6	3.08	3.685	0.288	53	59	0.69
10	1.83	2.190	0.269	72	79	1.15
16	1.15	1.376	0.255	95	102	1.84
25	0.727	0.870	0.255	128	132	2.88
35	0.524	0.627	0.246	157	158	4.03
50	0.387	0.464	0.247	191	186	5.75

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

# NYRGbY 2 x (1.5-300) mm<sup>2</sup> 0.6/1 kV

## Cu / PVC / SWA / PVC

(Copper Conductor, PVC Insulated, Galvanized Steel Wire Armor, PVC Sheathed)

Standard Specification : SNI IEC 60502-1 : 2009

### Construction Data

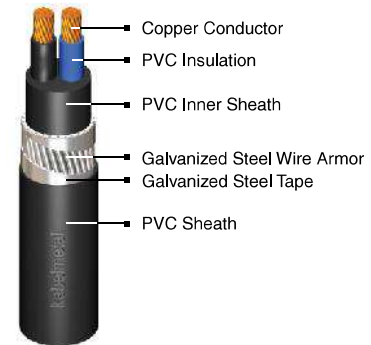
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
1.5	13.9	370
2.5	14.7	418
4	16.5	530
6	18.3	709
10	19.9	860
16	23.0	1,155
25	26.8	1,651
35	28.9	1,979
50	32.6	2,423
70	37.1	3,303
95	41.9	4,217
120	45.2	4,925
150	50.7	6,268
185	56.1	7,540
240	61.7	9,285
300	67.1	11,076

#### Application :

For installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

#### Special Features on Request :

- Tinned Coated Copper Conductor
- 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



#### 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

#### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

#### 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	AC Resistance at 70°C		in air	in ground	
1.5	12.1	14.5	0.343	22	26	0.17
2.5	7.41	8.87	0.318	29	34	0.29
4	4.61	5.52	0.317	39	45	0.46
6	3.08	3.69	0.298	50	56	0.69
10	1.83	2.190	0.269	66	78	1.15
16	1.15	1.376	0.255	90	102	1.84
25	0.727	0.870	0.255	120	134	2.88
35	0.524	0.627	0.246	150	160	4.03
50	0.387	0.464	0.247	180	187	5.75
70	0.268	0.321	0.238	230	230	8.05
95	0.193	0.232	0.238	275	280	10.93
120	0.153	0.184	0.233	320	320	13.80
150	0.124	0.150	0.233	375	355	17.25
185	0.0991	0.121	0.233	430	409	21.28
240	0.0754	0.093	0.232	510	472	27.60
300	0.0601	0.075	0.231	590	525	34.50

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

# NYRGrY 3 x (1.5-300) mm<sup>2</sup> 0.6/1 kV

## Cu / PVC / SWA / PVC

(Copper Conductor, PVC Insulated, Galvanized Steel Wire Armor, PVC Sheathed)

Standard Specification : SNI IEC 60502-1 : 2009

### Construction Data

Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
1.5	14.4	399
2.5	15.2	462
4	17.9	683
6	19.1	790
10	20.8	988
16	24.2	1,353
25	28.2	1,955
35	30.4	2,371
50	33.8	2,754
70	38.4	3,789
95	42.7	4,801
120	45.6	5,637
150	51.4	7,195
185	56.1	8,628
240	62.4	10,801
300	67.9	12,924

#### Application :

For installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

#### Special Features on Request :

- Tinned Coated Copper Conductor
- 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

#### Note :

##### Conductor Shape

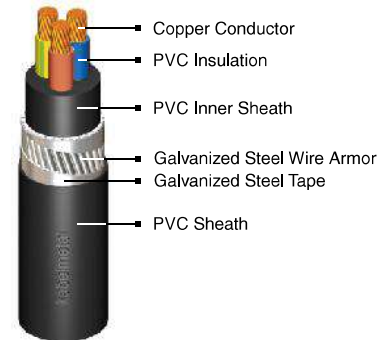
1.5 - 10 sqmm supplied in solid (re) or non compacted circular stranded (rm) conductor shape  
 16 sqmm supplied in non compacted circular stranded (rm) conductor shape  
 25 - 35 sqmm supplied in compacted circular stranded (cm) conductor shape  
 50 - 300 sqmm supplied in sector shaped stranded (sm) conductor

##### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

##### 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.	Conductor		Inductance	Current - Carrying Capacity at 30°C *		Short circuit current at 1 sec
	DC Resistance at 20°C	AC Resistance at 70°C		in air	in ground	
	Max. (Ω/km)	Max. (Ω/km)		Max. (A)	Max. (A)	
(mm <sup>2</sup> )			(mH/km)			Max. (kA)
1.5	12.1	14.5	0.343	20	24	0.17
2.5	7.41	8.87	0.318	26	31	0.29
4	4.61	5.52	0.317	35	41	0.46
6	3.08	2.69	0.298	45	51	0.69
10	1.83	2.190	0.269	60	69	1.15
16	1.15	1.376	0.255	80	89	1.84
25	0.727	0.870	0.255	105	116	2.88
35	0.524	0.627	0.246	130	138	4.03
50	0.387	0.464	0.247	160	165	5.75
70	0.268	0.321	0.238	200	205	8.05
95	0.193	0.232	0.238	245	245	10.93
120	0.153	0.184	0.233	285	285	13.80
150	0.124	0.150	0.233	325	315	17.25
185	0.0991	0.121	0.233	370	355	21.28
240	0.0754	0.093	0.232	435	415	27.60
300	0.0601	0.075	0.231	500	465	34.50

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

# NYRGrY 4 x (1.5-300) mm<sup>2</sup> 0.6/1 kV

## Cu / PVC / SWA / PVC

(Copper Conductor, PVC Insulated, Galvanized Steel Wire Armor, PVC Sheathed)

Standard Specification : SNI IEC 60502-1 : 2009

### Construction Data

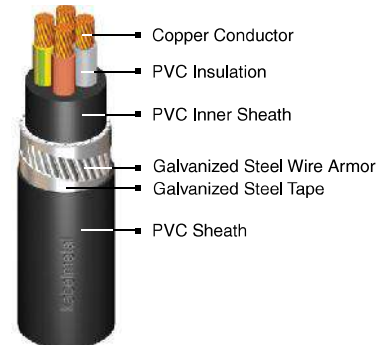
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
1.5	15.2	448
2.5	16.1	552
4	19.0	770
6	20.3	909
10	22.3	1,165
16	26.8	1,743
25	30.5	2,336
35	33.2	2,867
50	39.0	3,717
70	43.2	4,734
95	49.0	6,459
120	53.0	7,639
150	58.4	9,137
185	64.2	11,046
240	71.2	13,927
300	79.2	17,596

#### Application :

For installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

#### Special Features on Request :

- Tinned Coated Copper Conductor
- 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



#### 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

##### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

##### 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. (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	14.5	0.343	20	24	0.17
2.5	7.41	8.87	0.318	26	31	0.29
4	4.61	5.52	0.317	35	41	0.46
6	3.08	3.69	0.298	45	51	0.69
10	1.83	2.190	0.269	60	69	1.15
16	1.15	1.376	0.255	80	89	1.84
25	0.727	0.870	0.255	105	116	2.88
35	0.524	0.627	0.246	130	138	4.03
50	0.387	0.464	0.247	160	165	5.75
70	0.268	0.321	0.238	200	205	8.05
95	0.193	0.232	0.238	245	245	10.93
120	0.153	0.184	0.233	285	285	13.80
150	0.124	0.150	0.233	325	315	17.25
185	0.0991	0.121	0.233	370	355	21.28
240	0.0754	0.093	0.232	435	415	27.60
300	0.0601	0.075	0.231	500	465	34.50

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

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

## Cu / PVC / SWA / PVC

(Copper Conductor, PVC Insulated, Galvanized Steel Wire Armor, PVC Sheathed)

Standard Specification : SNI IEC 60502-1 : 2009

### Construction Data

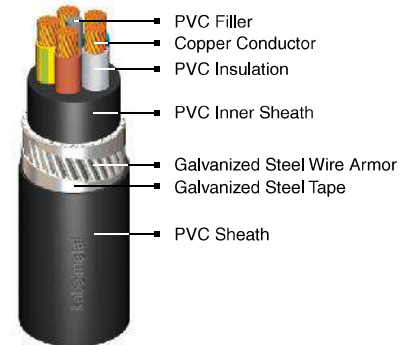
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
1.5	16.1	500
2.5	17.1	592
4	20.3	881
6	21.7	1045
10	24.7	1,482
16	28.9	2,037
25	33.2	2,756
35	37.1	3,646
50	42.4	4,497

#### Application :

For installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

#### Special Features on Request :

- Tinned Coated Copper Conductor
- 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



#### 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

##### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

##### Standard Packing

1.5 - 35 sqmm supplied in wooden drum @ 1000 m  
 50 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 at 30°C *		Short circuit current at 1 sec
	DC Resistance at 20°C	AC Resistance at 70°C		in air	in ground	
	Max. (Ω/km)	Max. (Ω/km)		Max. (A)	Max. (A)	
(mm <sup>2</sup> )			(mH/km)			Max. (kA)
1.5	12.1	14.5	0.343	20	24	0.17
2.5	7.41	8.87	0.318	26	31	0.29
4	4.61	5.52	0.317	35	41	0.46
6	3.08	3.69	0.298	45	51	0.69
10	1.83	2.190	0.269	60	69	1.15
16	1.15	1.376	0.255	80	89	1.84
25	0.727	0.870	0.255	105	116	2.88
35	0.524	0.627	0.246	130	138	4.03
50	0.387	0.463	0.247	160	165	5.75

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

# NYFGbY 2 x (1.5-300) mm<sup>2</sup> 0.6/1 kV

## Cu / PVC / SFWA / PVC

(Copper Conductor, PVC Insulated, Galvanized Steel Flat Wire Armor, PVC Sheathed)

Standard Specification : SNI IEC 60502-1 : 2009

### Construction Data

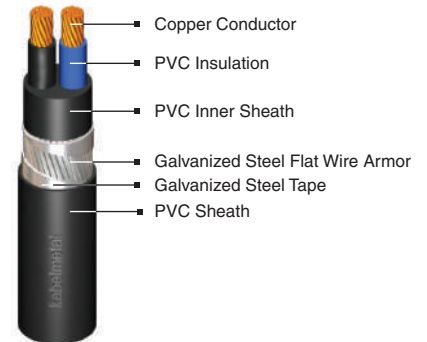
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
1.5	17.9	611
2.5	18.0	630
4	17.8	648
6	18.1	687
10	20.5	881
16	22.5	1,085
25	25.5	1,428
35	27.5	1,753
50	31.0	2,120
70	35.0	2,716
95	39.5	3,528
120	43.0	4,177
150	47.0	5,012
185	52.0	6,116
240	58.0	7,695
300	64.0	9,384

#### Application :

For installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

#### Special Features on Request :

- Tinned Coated Copper Conductor
- 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



#### 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

##### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

##### Standard Packing

1.5 - 95 sqmm supplied in wooden drum @ 1000 m

120 - 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 at 30°C *		Short circuit current at 1 sec
	DC Resistance at 20°C	AC Resistance at 70°C		Capacity		
				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	24	27	0.17
2.5	7.41	8.866	0.315	32	36	0.29
4	4.61	5.516	0.303	42	48	0.46
6	3.08	3.685	0.288	53	61	0.69
10	1.83	2.190	0.269	73	81	1.15
16	1.15	1.376	0.255	96	106	1.84
25	0.727	0.870	0.255	126	136	2.88
35	0.524	0.627	0.246	155	164	4.03
50	0.387	0.464	0.247	186	194	5.75
70	0.268	0.321	0.238	235	239	8.05
95	0.193	0.232	0.238	286	284	10.93
120	0.153	0.184	0.233	331	324	13.80
150	0.124	0.150	0.233	377	364	17.25
185	0.0991	0.121	0.233	430	408	21.28
240	0.0754	0.093	0.232	507	472	27.60
300	0.0601	0.075	0.231	577	530	34.50

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

# NYFGbY 3 x (1.5-300) mm<sup>2</sup> 0.6/1 kV

## Cu / PVC / SFWA / PVC

(Copper Conductor, PVC Insulated, Galvanized Steel Flat Wire Armor, PVC Sheathed)

Standard Specification : SNI IEC 60502-1 : 2009

### Construction Data

Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
1.5	17.8	620
2.5	18.0	648
4	18.0	681
6	19.0	789
10	21.5	997
16	23.5	1,280
25	27.0	1,709
35	29.5	2,123
50	32.0	2,444
70	36.0	3,217
95	40.5	4,171
120	43.5	4,957
150	48.0	6,011
185	52.5	7,319
240	59.0	9,324
300	64.5	11,344

#### Application :

For installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

#### Special Features on Request :

- Tinned Coated Copper Conductor
- 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

#### Note :

##### Conductor Shape

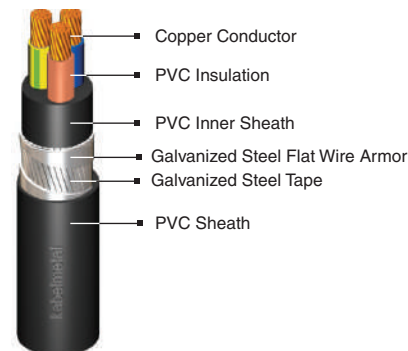
1.5 - 10 sqmm supplied in solid (re) or non compacted circular stranded (rm) conductor shape  
 16 sqmm supplied in non compacted circular stranded (rm) conductor shape  
 25 - 35 sqmm supplied in compacted circular stranded (cm) conductor shape  
 50 - 300 sqmm supplied in sector shaped stranded (sm) conductor

##### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

##### 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.	Conductor		Inductance	Current - Carrying Capacity at 30°C *		Short circuit current at 1 sec
	DC Resistance at 20°C	AC Resistance at 70°C		Capacity		
				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	20	23	0.17
2.5	7.41	8.866	0.315	27	31	0.29
4	4.61	5.516	0.303	36	41	0.46
6	3.08	3.685	0.288	45	52	0.69
10	1.83	2.190	0.269	62	69	1.15
16	1.15	1.376	0.255	82	90	1.84
25	0.727	0.870	0.255	108	116	2.88
35	0.524	0.627	0.246	133	139	4.03
50	0.387	0.464	0.247	166	171	5.75
70	0.268	0.321	0.238	208	209	8.05
95	0.193	0.232	0.238	255	250	10.93
120	0.153	0.184	0.233	295	284	13.80
150	0.124	0.150	0.233	337	318	17.25
185	0.0991	0.121	0.233	387	359	21.28
240	0.0754	0.093	0.232	457	414	27.60
300	0.0601	0.075	0.231	523	466	34.50

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

# NYFGbY 4 x (1.5-300) mm<sup>2</sup> 0.6/1 kV

## Cu / PVC / SFWA / PVC

(Copper Conductor, PVC Insulated, Galvanized Steel Flat Wire Armor, PVC Sheathed)

Standard Specification : SNI IEC 60502-1 : 2009

### Construction Data

Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
1.5	17.9	630
2.5	18.0	662
4	19.0	773
6	20.5	912
10	23.0	1,174
16	25.5	1,520
25	29.0	2,053
35	32.0	2,584
50	37.5	3,173
70	40.5	4,087
95	46.5	5,359
120	50.5	6,459
150	56.5	7,868
185	61.0	9,556
240	68.0	12,138
300	74.5	14,773

#### Application :

For installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

#### Special Features on Request :

- Tinned Coated Copper Conductor
- 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

#### 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

##### Tinned Coated Copper Conductor

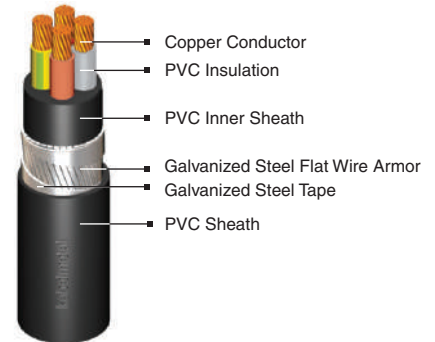
Electrical properties for tinned coated copper conductor will be submitted upon request

##### 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. (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		Capacity		
				in air	in ground	
Max. (Ω/km)	Max. (Ω/km)	Max. (A)	Max. (A)	Max. (kA)		
1.5	12.1	14.478	0.340	23	27	0.17
2.5	7.41	8.866	0.315	31	36	0.29
4	4.61	5.516	0.303	41	48	0.46
6	3.08	3.685	0.288	52	59	0.69
10	1.83	2.190	0.269	71	79	1.15
16	1.15	1.376	0.255	94	101	1.84
25	0.727	0.870	0.255	126	131	2.88
35	0.524	0.627	0.246	154	157	4.03
50	0.387	0.464	0.247	177	176	5.75
70	0.268	0.321	0.238	221	215	8.05
95	0.193	0.232	0.238	272	257	10.93
120	0.153	0.184	0.233	314	292	13.80
150	0.124	0.150	0.233	363	330	17.25
185	0.0991	0.121	0.233	412	369	21.28
240	0.0754	0.093	0.232	488	427	27.60
300	0.0601	0.075	0.231	559	481	34.50

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



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

## Cu / PVC / SFWA / PVC

(Copper Conductor, PVC Insulated, Galvanized Steel Flat Wire Armor, PVC Sheathed)

Standard Specification : SNI IEC 60502-1 : 2009

### Construction Data

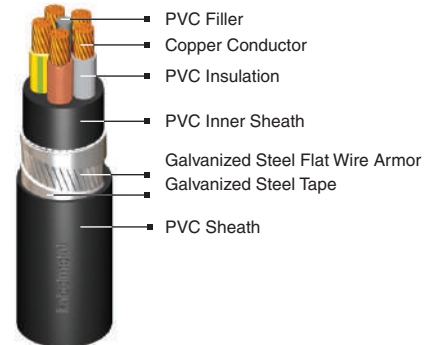
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
1.5	17.8	642
2.5	17.9	682
4	20.5	891
6	22.0	1,056
10	24.5	1,391
16	27.5	1,778
25	32.0	2,463
35	35.0	3,106
50	40.0	3,904

#### Application :

For installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

#### Special Features on Request :

- Tinned Coated Copper Conductor
- 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



#### 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

##### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

##### Standard Packing

1.5 - 50 sqmm supplied in wooden drum @ 1000 m

Length Tolerance per drum  $\pm$  2%

### Electrical Data

Nom. Cross Sect.	Conductor		Inductance	Current - Carrying Capacity at 30°C *		Short circuit current at 1 sec
	DC Resistance at 20°C	AC Resistance at 70°C		in air	in ground	
	Max. (Ω/km)	Max. (Ω/km)		Max. (A)	Max. (A)	
(mm <sup>2</sup> )			(mH/km)			Max. (kA)
1.5	12.1	14.478	0.340	24	28	0.17
2.5	7.41	8.866	0.304	32	37	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	80	1.15
16	1.15	1.376	0.255	97	103	1.84
25	0.727	0.870	0.255	130	133	2.88
35	0.524	0.627	0.246	160	159	4.03
50	0.387	0.464	0.247	194	188	5.75

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

# N2XY 1 x (1.5-800) mm<sup>2</sup> 0.6/1 kV Cu / XLPE / PVC

(Copper Conductor, XLPE Insulated, PVC Sheathed)  
Standard Specification : SNI IEC 60502-1 : 2009

## Construction Data

Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
1,5	5,9	48
2,5	6,4	61
4	6,9	80
6	7,5	102
10	8,5	147
16	9,5	207
25	11,3	315
35	12,4	410
50	14,1	555
70	16,1	759
95	18,1	1,006
120	19,9	1,244
150	22,5	1,518
185	25,0	1,917
240	28,0	2,504
300	30,5	3,039
400	34,5	3,892
500	38,5	4,981
630	43,5	6,478
800	48,0	8,134

### Application :

Power cable : Indoors, cable trunking, outdoors and buried in the ground, for power stations, industry and switchgear as well as for urban supply networks, if mechanical damage is unlikely.

### Special Features on Request

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

### Note :

#### Conductor Shape

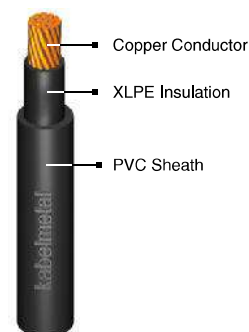
1.5 - 10 sqmm supplied in solid (re) or non compacted circular stranded (rm) conductor shape  
16 sqmm supplied in non compacted circular stranded (rm) conductor shape  
25 - 800 sqmm supplied in non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape

#### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

#### Standard Packing

1.5 - 10 sqmm supplied in coil @ 100 m  
16 - 400 sqmm supplied in wooden drum @ 1000 m  
500 - 800 sqmm 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 90°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)
1.5	12.1	15.429	0.452	0.498	25	33	26	33	0.21
2.5	7.41	9.449	0.417	0.463	34	43	35	43	0.36
4	4.61	5.878	0.387	0.433	45	56	46	55	0.57
6	3.08	3.927	0.364	0.410	57	69	58	68	0.86
10	1.83	2.334	0.336	0.382	78	92	80	91	1.43
16	1.15	1.466	0.315	0.361	104	118	107	117	2.29
25	0.727	0.927	0.302	0.348	141	152	145	151	3.58
35	0.524	0.668	0.289	0.335	173	182	178	180	5.01
50	0.387	0.494	0.279	0.325	213	216	220	214	7.15
70	0.268	0.342	0.270	0.316	271	265	279	261	10.01
95	0.193	0.247	0.263	0.310	335	316	346	312	13.59
120	0.153	0.196	0.259	0.305	392	359	404	355	17.16
150	0.124	0.160	0.259	0.305	451	403	466	397	21.45
185	0.0991	0.128	0.258	0.304	526	455	543	449	26.46
240	0.0754	0.099	0.253	0.300	630	527	650	519	34.32
300	0.0601	0.080	0.249	0.295	728	593	751	584	42.90
400	0.0470	0.064	0.249	0.295	848	671	875	660	57.20
500	0.0366	0.052	0.246	0.292	985	757	1018	744	71.50
630	0.0283	0.043	0.243	0.289	1141	849	1179	834	90.09
800	0.0221	0.036	0.241	0.287	1295	937	1339	921	114.40

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

# N2XY 2 x (1.5-300) mm<sup>2</sup> 0.6/1 kV

## Cu / XLPE / PVC

(Copper Conductor, XLPE Insulated, PVC Sheathed)  
Standard Specification : SNI IEC 60502-1 : 2009

### Construction Data

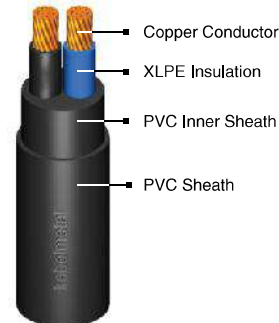
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
1.5	12.0	182
2.5	13.0	223
4	14.1	279
6	15.2	344
10	17.2	474
16	19.2	639
25	22.5	912
35	25.0	1,173
50	27.5	1,411
70	31.5	1,929
95	35.5	2,589
120	39.0	3,182
150	43.5	3,894
185	48.0	4,847
240	54.0	6,217
300	59.5	7,697

#### Application :

Power cable : Indoors, cable trunking, outdoors and buried in the ground, for power stations, industry and switchgear as well as for urban supply networks, if mechanical damage is unlikely.

#### Special Features on Request

- Tinned Coated Copper Conductor
- Fire Resistance
- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- 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

##### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

##### Standard Packing

1.5 - 150 sqmm supplied in wooden drum @ 1000 m  
185 - 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 90°C (Ω/km)		in air (A)	in ground (A)	
1.5	12.1	15.429	0.315	29	34	0.21
2.5	7.41	9.449	0.293	38	44	0.36
4	4.61	5.878	0.275	50	58	0.57
6	3.08	3.927	0.263	64	73	0.86
10	1.83	2.334	0.248	88	98	1.43
16	1.15	1.467	0.238	116	128	2.29
25	0.727	0.927	0.240	154	165	3.58
35	0.524	0.669	0.233	190	199	5.01
50	0.387	0.494	0.232	230	236	7.15
70	0.268	0.342	0.229	292	292	10.01
95	0.193	0.247	0.224	356	348	13.59
120	0.153	0.196	0.223	414	397	17.16
150	0.124	0.160	0.224	474	445	21.45
185	0.0991	0.128	0.225	544	502	26.46
240	0.0754	0.099	0.223	644	582	34.32
300	0.0601	0.080	0.221	737	654	42.90

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

# N2XY 3 x (1.5-300) mm<sup>2</sup> 0.6/1 kV Cu / XLPE / PVC

(Copper Conductor, XLPE Insulated, PVC Sheathed)  
Standard Specification : SNI IEC 60502-1 : 2009

## Construction Data

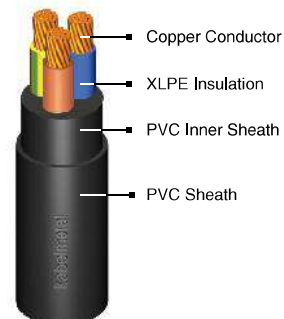
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
1.5	12.5	203
2.5	13.5	253
4	14.7	324
6	16.0	405
10	18.0	572
16	20.5	786
25	24.0	1,139
35	26.0	1,483
50	28.0	1,698
70	32.5	2,382
95	36.0	3,168
120	39.0	3,895
150	44.0	4,830
185	48.5	5,971
240	54.5	7,752
300	59.0	9,544

### Application :

Power cable : Indoors, cable trunking, outdoors and buried in the ground, for power stations, industry and switchgear as well as for urban supply networks, if mechanical damage is unlikely.

### Special Features on Request

- Tinned Coated Copper Conductor
- Fire Resistance
- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- 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

#### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

#### Standard Packing

1.5 - 120 sqmm supplied in wooden drum @ 1000 m  
150 - 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	AC Resistance at 90°C		Capacity		
				in air	in ground	
Max. (Ω/km)	Max. (Ω/km)	Max. (A)	Max. (A)	Max. (kA)		
1.5	12.1	15.429	0.315	21	28	0.21
2.5	7.41	9.449	0.293	32	37	0.36
4	4.61	5.878	0.275	43	49	0.57
6	3.08	3.927	0.263	54	61	0.86
10	1.83	2.334	0.248	74	83	1.43
16	1.15	1.467	0.238	99	107	2.29
25	0.727	0.927	0.240	131	139	3.58
35	0.524	0.669	0.233	162	167	5.01
50	0.387	0.494	0.232	200	203	7.15
70	0.268	0.342	0.229	252	248	10.01
95	0.193	0.247	0.224	309	298	13.59
120	0.153	0.196	0.223	359	339	17.16
150	0.124	0.160	0.224	411	379	21.45
185	0.0991	0.128	0.225	475	430	26.46
240	0.0754	0.099	0.223	562	497	34.32
300	0.0601	0.080	0.221	645	560	42.90

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

# N2XY 4 x (1.5-300) mm<sup>2</sup> 0.6/1 kV

## Cu / XLPE / PVC

(Copper Conductor, XLPE Insulated, PVC Sheathed)  
Standard Specification : SNI IEC 60502-1 : 2009

### Construction Data

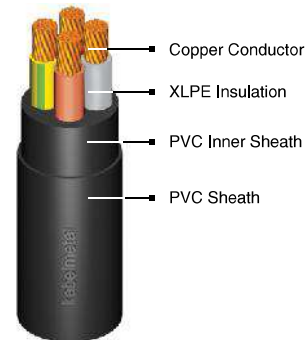
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
1.5	13.3	232
2.5	14.5	294
4	15.8	382
6	17.2	484
10	19.5	700
16	22.0	973
25	26.0	1,422
35	28.5	1,864
50	32.5	2,218
70	36.5	3,105
95	40.5	4,148
120	45.5	5,180
150	51.5	6,371
185	56.0	7,861
240	62.5	10,208
300	68.0	12,573

#### Application :

Power cable : Indoors, cable trunking, outdoors and buried in the ground, for power stations, industry and switchgear as well as for urban supply networks, if mechanical damage is unlikely.

#### Special Features on Request

- Tinned Coated Copper Conductor
- Fire Resistance
- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- 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 - 35 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

##### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

##### 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 90°C (Ω/km)		in air (A)	in ground (A)	
1.5	12.1	15.429	0.315	27	31	0.21
2.5	7.41	9.449	0.293	35	41	0.36
4	4.61	5.878	0.275	47	53	0.57
6	3.08	3.927	0.263	59	67	0.86
10	1.83	2.334	0.248	81	89	1.43
16	1.15	1.467	0.238	108	116	2.29
25	0.727	0.927	0.240	146	151	3.58
35	0.524	0.669	0.233	180	181	5.01
50	0.387	0.494	0.232	212	208	7.15
70	0.268	0.342	0.229	265	254	10.01
95	0.193	0.247	0.224	327	305	13.59
120	0.153	0.196	0.223	379	347	17.16
150	0.124	0.160	0.224	442	392	21.45
185	0.0991	0.128	0.225	504	441	26.46
240	0.0754	0.099	0.223	597	511	34.32
300	0.0601	0.080	0.221	685	576	42.90

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

# N2XY 5 x (1.5-50) mm<sup>2</sup> 0.6/1 kV Cu / XLPE / PVC

(Copper Conductor, XLPE Insulated, PVC Sheathed)  
Standard Specification : SNI IEC 60502-1 : 2009

## Construction Data

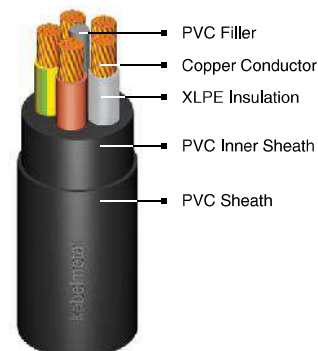
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
1.5	14,2	269
2.5	15,5	345
4	17,0	453
6	18,5	579
10	21,5	838
16	24,0	1,174
25	28,5	1,728
35	31,5	2,273
50	36,0	2,917

### Application :

Power cable : Indoors, cable trunking, outdoors and buried in the ground, for power stations, industry and switchgear as well as for urban supply networks, if mechanical damage is unlikely.

### Special Features on Request

- Tinned Coated Copper Conductor
- Fire Resistance
- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- 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

#### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

#### Standard Packing

1.5 - 50 sqmm supplied in wooden drum @ 1000 m  
Length Tolerance per drum  $\pm 2\%$

## 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 Max. (kA)
	DC Resistance at 20°C Max. (Ω/km)	AC Resistance at 90°C Max. (Ω/km)		in air Max. (A)	in ground Max. (A)	
1.5	12.1	15.429	0.315	27	32	0.21
2.5	7.41	9.449	0.293	36	42	0.36
4	4.61	5.878	0.275	48	54	0.57
6	3.08	3.927	0.263	61	68	0.86
10	1.83	2.334	0.248	84	91	1.43
16	1.15	1.467	0.238	112	118	2.29
25	0.727	0.927	0.240	152	153	3.58
35	0.524	0.669	0.233	187	184	5.01
50	0.387	0.494	0.232	227	217	7.15

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

# NAYY 1 x (10-800) mm<sup>2</sup> 0.6/1 kV

## AI / PVC / PVC

(Aluminium Conductor, PVC Insulated, PVC Sheathed)

Standard Specification : SNI IEC 60502-1 : 2009

### Construction Data

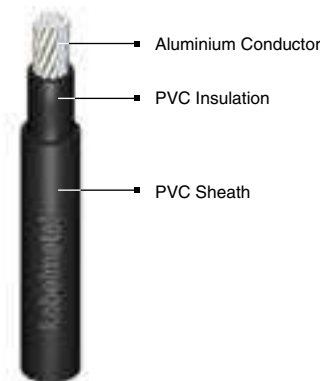
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
10	9.1	103
16	10.3	135
25	11.9	186
35	13.1	231
50	15.0	306
70	17.1	391
95	19.2	498
120	21.0	583
150	23.5	725
185	26.0	886
240	29.0	1,142
300	32.0	1,388
400	35.5	1,706
500	40.5	2,219
630	44.5	2,709
800	48.5	3,272

#### Application :

Power cable : Indoors, cable trunking, outdoors and buried in the ground, for power stations, industry and switchgear as well as for urban supply networks, if mechanical damage is unlikely.

#### Special Features on Request :

- 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

10 - 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

10 - 800 sqmm supplied in wooden drum @ 1000 m  
Length Tolerance per drum ± 2%

### Electrical Data

Nom. Cross Sect. (mm <sup>2</sup> )	Conductor		Inductance		Current - Carrying Capacity at 30° C *				Short circuit current at 1 sec Max. (kA)
	DC Resistance at 20°C Max. (Ω/km)	AC Resistance at 70°C Max. (Ω/km)	Trefoil formation (mH/km)	Flat formation (mH/km)	⊗		⊙		
					in air Max. (A)	in ground Max. (A)	in air Max. (A)	in ground Max. (A)	
10	3.08	3.701	0.350	0.396	49	59	50	58	0.76
16	1.91	2.295	0.323	0.370	66	77	68	76	1.22
25	1.20	1.442	0.313	0.359	88	98	91	97	1.90
35	0.868	1.043	0.298	0.344	109	118	112	117	2.66
50	0.641	0.770	0.290	0.336	134	140	138	138	3.80
70	0.443	0.533	0.279	0.325	170	171	175	169	5.32
95	0.320	0.385	0.274	0.320	210	205	216	202	7.22
120	0.253	0.305	0.270	0.316	244	233	251	229	9.12
150	0.206	0.249	0.265	0.312	283	261	291	258	11.40
185	0.164	0.198	0.264	0.310	328	296	339	292	14.06
240	0.125	0.152	0.260	0.306	395	344	407	339	18.24
300	0.100	0.122	0.258	0.304	456	388	471	382	22.80
400	0.0778	0.096	0.252	0.298	548	447	565	440	27.20
500	0.0605	0.076	0.251	0.298	633	507	653	499	34.00
630	0.0469	0.061	0.246	0.293	738	576	762	566	42.84
800	0.0367	0.050	0.242	0.289	848	646	877	635	54.40

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

# NAYY 2 x (10-300) mm<sup>2</sup> 0.6/1 kV

## AI / PVC / PVC

(Aluminium Conductor, PVC Insulated, PVC Sheathed)

Standard Specification : SNI IEC 60502-1 : 2009

### Construction Data

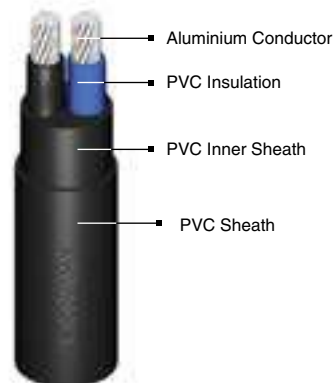
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
10	18.4	411
16	21.0	536
25	23.5	675
35	26.0	834
50	29.5	964
70	33.0	1,229
95	38.0	1,632
120	41.0	1,926
150	44.0	2,259
185	50.5	2,877
240	55.5	3,576
300	61.5	4,375

#### Application :

Power cable : Indoors, cable trunking, outdoors and buried in the ground, for power stations, industry and switchgear as well as for urban supply networks, if mechanical damage is unlikely.

#### Special Features on Request :

- 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

10 - 16 sqmm supplied in non compacted circular stranded (rm) conductor shape  
25 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

##### Standard Packing

10 - 150 sqmm supplied in wooden drum @ 1000 m  
185 - 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)		Capacity		
				in air (A)	in ground (A)	
10	3.08	3.701	0.269	54	61	0.76
16	1.91	2.295	0.253	73	81	1.22
25	1.20	1.442	0.257	94	103	1.90
35	0.868	1.043	0.247	116	125	2.66
50	0.641	0.770	0.247	141	148	3.80
70	0.443	0.533	0.238	178	183	5.32
95	0.320	0.385	0.238	218	219	7.22
120	0.253	0.305	0.233	253	250	9.12
150	0.206	0.248	0.235	285	279	11.40
185	0.164	0.198	0.233	331	317	14.06
240	0.125	0.152	0.232	390	366	18.24
300	0.100	0.122	0.231	447	413	22.80

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



# NAYY 3 x (10-300) mm<sup>2</sup> 0.6/1 kV AI / PVC / PVC

(Aluminium Conductor, PVC Insulated, PVC Sheathed)

Standard Specification : SNI IEC 60502-1 : 2009

## Construction Data

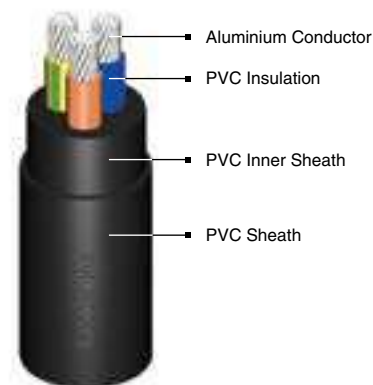
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
10	19.4	459
16	22.5	601
25	24.5	767
35	27.5	952
50	30.0	986
70	34.0	1,301
95	38.5	1,682
120	41.5	1,973
150	46.0	2,399
185	50.5	2,936
240	57.0	3,741
300	62.5	4,534

### Application :

Power cable : Indoors, cable trunking, outdoors and buried in the ground, for power stations, industry and switchgear as well as for urban supply networks, if mechanical damage is unlikely.

### Special Features on Request :

- 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

10 - 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

10 - 150 sqmm supplied in wooden drum @ 1000 m

185 - 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 Max. (kA)
	DC Resistance at 20°C Max. (Ω/km)	AC Resistance at 70°C Max. (Ω/km)		Capacity		
				in air Max. (A)	in ground Max. (A)	
10	3.08	3.701	0.269	46	52	0.76
16	1.91	2.295	0.253	62	69	1.22
25	1.20	1.442	0.257	81	88	1.90
35	0.868	1.043	0.247	100	106	2.66
50	0.641	0.770	0.247	126	131	3.80
70	0.443	0.533	0.238	158	160	5.32
95	0.320	0.385	0.238	194	192	7.22
120	0.253	0.305	0.233	225	219	9.12
150	0.206	0.248	0.235	257	245	11.40
185	0.164	0.198	0.233	297	278	14.06
240	0.125	0.152	0.232	352	322	18.24
300	0.100	0.122	0.231	405	364	22.80

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

# NAYY 4 x (10-300) mm<sup>2</sup> 0.6/1 kV

## AI / PVC / PVC

(Aluminium Conductor, PVC Insulated, PVC Sheathed)

Standard Specification : SNI IEC 60502-1 : 2009

### Construction Data

Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
10	21.5	541
16	24.5	715
25	27.0	920
35	30.0	1,147
50	35.5	1,306
70	39.0	1,659
95	44.5	2,163
120	48.5	2,599
150	54.5	3,164
185	59.0	3,867
240	66.0	4,854
300	72.5	5,884

#### Application :

Power cable : Indoors, cable trunking, outdoors and buried in the ground, for power stations, industry and switchgear as well as for urban supply networks, if mechanical damage is unlikely.

#### Special Features on Request :

- 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

10 - 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

10 - 120 sqmm supplied in wooden drum @ 1000 m

150 - 300 sqmm will be supplied in wooden drum on available length

Length Tolerance per drum  $\pm 2\%$

### 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)		Capacity		
				in air (A)	in ground (A)	
10	3.08	3.701	0.269	53	59	0.76
16	1.91	2.295	0.253	71	77	1.22
25	1.20	1.442	0.257	93	99	1.90
35	0.868	1.043	0.247	115	119	2.66
50	0.641	0.770	0.247	134	135	3.80
70	0.443	0.533	0.238	167	165	5.32
95	0.320	0.385	0.238	207	198	7.22
120	0.253	0.305	0.233	240	225	9.12
150	0.206	0.248	0.235	277	254	11.40
185	0.164	0.198	0.233	316	286	14.06
240	0.125	0.152	0.232	377	332	18.24
300	0.100	0.122	0.231	433	376	22.80

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

# NAYY 5 x (10-50) mm<sup>2</sup> 0.6/1 kV

## AI / PVC / PVC

(Aluminium Conductor, PVC Insulated, PVC Sheathed)

Standard Specification : SNI IEC 60502-1 : 2009

### Construction Data

Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
10	23.0	636
16	26.5	847
25	29.5	1,098
35	33.0	1,389
50	38.0	1,731

#### Application :

Power cable : Indoors, cable trunking, outdoors and buried in the ground, for power stations, industry and switchgear as well as for urban supply networks, if mechanical damage is unlikely.

#### Special Features on Request :

- 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

10 - 16 sqmm supplied in non compacted circular stranded (rm) conductor shape

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

##### Standard Packing

10 - 50 sqmm supplied in wooden drum @ 1000 m

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	
	Max. (Ω/km)	Max. (Ω/km)		Max. (A)	Max. (A)	
10	3.08	3.701	0.269	54	60	0.76
16	1.91	2.295	0.253	73	78	1.22
25	1.20	1.442	0.257	97	101	1.90
35	0.868	1.043	0.247	120	121	2.66
50	0.641	0.771	0.247	147	144	3.80

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

# NA2XY 1 x (10-800) mm<sup>2</sup> 0.6/1 kV

## AI / XLPE / PVC

(Aluminium Conductor, XLPE Insulated, PVC Sheathed)

Standard Specification : SNI IEC 60502-1 : 2009

### Construction Data

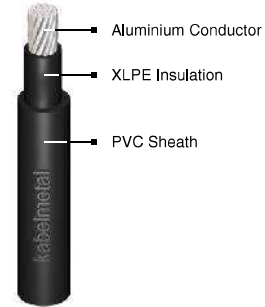
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
10	8.5	84
16	9.7	113
25	11.3	156
35	12.5	196
50	14.1	257
70	16.2	335
95	18.1	425
120	19.6	500
150	22.5	639
185	25.0	783
240	28.0	1,008
300	30.5	1,208
400	36.0	1,696
500	39.0	1,982
630	43.5	2,473
800	48.0	3,037

#### Application :

Power cable : Indoors, cable trunking, outdoors and buried in the ground, for power stations, industry and switchgear as well as for urban supply networks, if mechanical damage is unlikely.

#### Special Features on Request

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



#### Note :

##### Conductor Shape

10 - 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

10 - 800 sqmm supplied in wooden drum @ 1000 m

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 90°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)
10	3.08	3.949	0.336	0.382	60	71	62	70	0.94
16	1.91	2.449	0.311	0.357	81	92	84	91	1.50
25	1.20	1.539	0.302	0.348	109	118	112	117	2.35
35	0.868	1.113	0.289	0.335	134	142	138	140	3.29
50	0.641	0.822	0.279	0.325	165	168	170	166	4.70
70	0.443	0.568	0.269	0.316	211	206	218	203	6.58
95	0.320	0.411	0.263	0.309	260	245	269	242	8.93
120	0.253	0.325	0.260	0.306	303	279	312	275	11.28
150	0.206	0.265	0.258	0.304	353	313	364	309	14.10
185	0.164	0.212	0.258	0.304	411	355	424	350	17.39
240	0.125	0.162	0.253	0.299	494	412	510	406	22.56
300	0.100	0.130	0.249	0.295	571	465	590	458	28.20
400	0.0778	0.103	0.245	0.292	688	536	711	528	37.60
500	0.0605	0.081	0.245	0.291	796	609	823	599	47.00
630	0.0469	0.065	0.243	0.289	932	692	963	680	59.22
800	0.0367	0.053	0.241	0.287	1074	778	1111	764	75.20

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

# NA2XY 2 x (10-300) mm<sup>2</sup> 0.6/1 kV

## AI / XLPE / PVC

(Aluminium Conductor, XLPE Insulated, PVC Sheathed)

Standard Specification : SNI IEC 60502-1 : 2009

### Construction Data

Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
10	17.2	347
16	19.7	460
25	22.0	587
35	24.5	734
50	27.5	836
70	31.5	1,092
95	35.5	1,433
120	39.0	1,734
150	42.5	2,040
185	48.5	2,595
240	53.5	3,211
300	59.0	3,943

#### Application :

Power cable : Indoors, cable trunking, outdoors and buried in the ground, for power stations, industry and switchgear as well as for urban supply networks, if mechanical damage is unlikely.

#### Special Features on Request

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



#### Note :

##### Conductor Shape

10 - 16 sqmm supplied in non compacted circular stranded (m) conductor shape  
25 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

##### Standard Packing

10 - 185 sqmm supplied in wooden drum @ 1000 m  
240 - 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 at 30°C *		Short circuit current at 1 sec
	DC Resistance at 20°C	AC Resistance at 90°C		in air	in ground	
	Max. (Ω/km)	Max. (Ω/km)		Max. (A)	Max. (A)	
(mm <sup>2</sup> )			(mH/km)			Max. (kA)
10	3.08	3.949	0.248	67	75	0.94
16	1.91	2.449	0.236	91	100	1.50
25	1.20	1.539	0.242	119	128	2.35
35	0.868	1.113	0.234	147	154	3.29
50	0.641	0.822	0.232	179	183	4.70
70	0.443	0.568	0.229	227	226	6.58
95	0.320	0.411	0.224	277	270	8.93
120	0.253	0.325	0.223	322	308	11.28
150	0.206	0.265	0.225	364	344	14.10
185	0.164	0.211	0.225	425	391	17.39
240	0.125	0.162	0.223	501	454	22.56
300	0.100	0.130	0.222	574	511	28.20

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

# NA2XY 3 x (10-300) mm<sup>2</sup> 0.6/1 kV

## AI / XLPE / PVC

(Aluminium Conductor, XLPE Insulated, PVC Sheathed)

Standard Specification : SNI IEC 60502-1 : 2009

### Construction Data

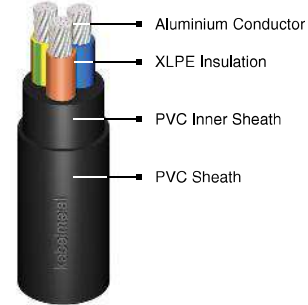
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
10	18.0	382
16	21.0	510
25	23.5	660
35	26.0	830
50	28.0	828
70	32.5	1,126
95	36.0	1,422
120	39.0	1,716
150	44.0	2,113
185	48.5	2,577
240	54.5	3,279
300	59.0	3,963

#### Application :

Power cable : Indoors, cable trunking, outdoors and buried in the ground, for power stations, industry and switchgear as well as for urban supply networks, if mechanical damage is unlikely.

#### Special Features on Request

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



#### Note :

##### Conductor Shape

10 - 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

10 - 185 sqmm supplied in wooden drum @ 1000 m

240 - 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 at 30°C *		Short circuit current at 1 sec
	DC Resistance at 20°C	AC Resistance at 90°C		in air	in ground	
	Max. (Ω/km)	Max. (Ω/km)		Max. (A)	Max. (A)	
(mm <sup>2</sup> )			(mH/km)			Max. (kA)
10	3.08	3.949	0.248	57	63	0.94
16	1.91	2.449	0.236	77	84	1.50
25	1.20	1.539	0.242	101	107	2.35
35	0.868	1.113	0.234	125	129	3.29
50	0.641	0.822	0.232	155	157	4.70
70	0.443	0.568	0.229	195	193	6.58
95	0.320	0.411	0.224	240	231	8.93
120	0.253	0.325	0.223	279	263	11.28
150	0.206	0.265	0.225	319	294	14.10
185	0.164	0.211	0.225	370	335	17.39
240	0.125	0.162	0.223	439	388	22.56
300	0.100	0.130	0.222	506	439	28.20

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

# NA2XY 4 x (10-300) mm<sup>2</sup> 0.6/1 kV

## AI / XLPE / PVC

(Aluminium Conductor, XLPE Insulated, PVC Sheathed)

Standard Specification : SNI IEC 60502-1 : 2009

### Construction Data

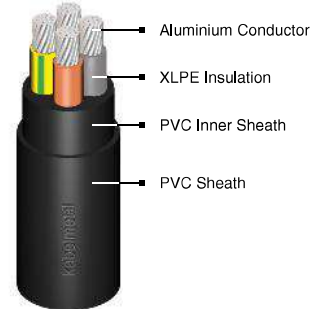
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
10	19,5	446
16	23,0	601
25	25,5	787
35	28,5	994
50	32,5	1,058
70	36,5	1,431
95	40,5	1,820
120	45,5	2,275
150	51,5	2,749
185	56,0	3,336
240	62,5	4,243
300	68,0	5,131

#### Application :

Power cable : Indoors, cable trunking, outdoors and buried in the ground, for power stations, industry and switchgear as well as for urban supply networks, if mechanical damage is unlikely.

#### Special Features on Request

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



#### Note :

##### Conductor Shape

10 - 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

10 - 120 sqmm supplied in wooden drum @ 1000 m

150 - 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 at 30°C *		Short circuit current at 1 sec
	DC Resistance at 20°C	AC Resistance at 90°C		in air	in ground	
	Max. (Ω/km)	Max. (Ω/km)		Max. (A)	Max. (A)	
(mm <sup>2</sup> )			(mH/km)			Max. (kA)
10	3.08	3.949	0.248	63	69	0.94
16	1.91	2.449	0.236	85	90	1.50
25	1.20	1.539	0.242	112	116	2.35
35	0.868	1.113	0.234	139	140	3.29
50	0.641	0.822	0.232	164	162	4.70
70	0.443	0.568	0.229	206	197	6.58
95	0.320	0.411	0.224	253	237	8.93
120	0.253	0.325	0.223	295	269	11.28
150	0.206	0.265	0.225	343	305	14.10
185	0.164	0.211	0.225	393	344	17.39
240	0.125	0.162	0.223	466	399	22.56
300	0.100	0.130	0.222	537	451	28.20

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

# NA2XY 5 x (10-50) mm<sup>2</sup> 0.6/1 kV

## AI / XLPE / PVC

(Aluminium Conductor, XLPE Insulated, PVC Sheathed)

Standard Specification : SNI IEC 60502-1 : 2009

### Construction Data

Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
10	21.5	521
16	24.5	709
25	27.5	935
35	31.0	1,187
50	36.0	1,479

#### Application :

Power cable : Indoors, cable trunking, outdoors and buried in the ground, for power stations, industry and switchgear as well as for urban supply networks, if mechanical damage is unlikely.

#### Special Features on Request

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



#### Note :

##### Conductor Shape

10 - 16 sqmm supplied in non compacted circular stranded (rm) conductor shape  
25 - 50 sqmm supplied in compacted circular stranded (cm) conductor shape

##### Standard Packing

10 - 50 sqmm supplied in wooden drum @ 1000 m  
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 90°C (Ω/km)		in air (A)	in ground (A)	
10	3.08	3.949	0.248	65	70	0.94
16	1.91	2.449	0.236	88	92	1.50
25	1.20	1.539	0.242	117	118	2.35
35	0.868	1.113	0.234	144	143	3.29
50	0.641	0.822	0.232	176	168	4.70

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



# N2XSYP 1 x (25-800) mm<sup>2</sup> 3.6/6 kV

## Cu / XLPE / CTS / PVC

(Copper Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed)

Standard Specification : SNI IEC 60502-2 : 2009

### Construction Data

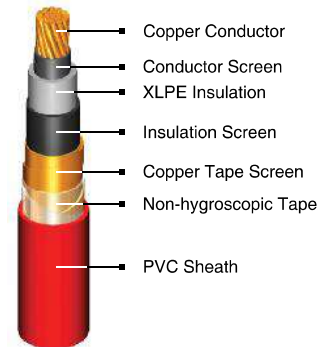
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
25	17.1	531
35	18.2	646
50	19.2	777
70	21.0	1,005
95	22.5	1,276
120	24.5	1,519
150	25.5	1,759
185	27.5	2,131
240	30.5	2,711
300	33.0	3,308
400	36.5	4,116
500	40.5	5,192
630	44.0	6,567
800	47.7	8,270

#### Application :

For power stations and switchgear as well as stations because of small bending radius in confined spaces indoors. As underground because of light weight where installation conditions are difficult.

#### Special Features on Request

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



#### Note :

##### Conductor Shape

25 - 800 sqmm supplied in compacted circular stranded (cm) conductor shape

##### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

##### Standard Packing

25 - 300 sqmm supplied in wooden drum @ 1000 m

400 - 800 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		Current - Carrying Capacity at 30° C *				Short circuit current at 1 sec	
	DC Resistance at 20°C	AC Resistance at 90°C	Trefoil formation	Flat formation	⊕⊕⊕		⊙⊙⊙		Conductor	Screen
					in air	in ground	in air	in ground		
Max. (Ω/km)	Max. (Ω/km)	(mH/km)	(mH/km)	Max. (A)	Max. (A)	Max. (A)	Max. (A)	Max. (kA)	Max. (kA)	
25	0.727	0.927	0.394	0.441	156	152	160	156	3.58	1.14
35	0.524	0.668	0.374	0.420	190	182	195	187	5.01	1.14
50	0.387	0.494	0.359	0.405	227	214	233	220	7.15	1.14
70	0.268	0.342	0.339	0.385	285	263	293	270	10.01	1.14
95	0.193	0.247	0.325	0.371	348	314	357	322	13.59	1.14
120	0.153	0.196	0.313	0.359	403	358	414	367	17.16	1.14
150	0.124	0.159	0.302	0.348	459	401	472	411	21.45	1.14
185	0.0991	0.128	0.295	0.341	528	452	543	463	26.46	1.14
240	0.0754	0.098	0.288	0.334	627	523	644	536	34.32	1.14
300	0.0601	0.079	0.282	0.329	721	590	741	603	42.90	1.14
400	0.0470	0.064	0.276	0.323	842	669	864	684	57.20	1.14
500	0.0366	0.051	0.271	0.318	974	755	999	772	71.50	1.14
630	0.0283	0.042	0.265	0.311	1118	846	1146	864	90.09	1.14
800	0.0221	0.036	0.258	0.304	1238	941	1308	962	114.40	1.14

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

# N2XSYP 1 x (25-800) mm<sup>2</sup> 6/10 kV

## Cu / XLPE / CTS / PVC

(Copper Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed)

Standard Specification : SNI IEC 60502-2 : 2009

### Construction Data

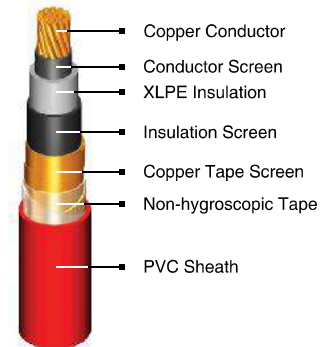
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
25	18.9	594
35	20.5	712
50	21.5	846
70	23.0	1,078
95	24.5	1,353
120	26.0	1,559
150	27.5	1,853
185	29.5	2,218
240	32.0	2,794
300	34.0	3,334
400	37.5	4,163
500	41.0	5,217
630	44.5	6,595
800	48.1	8,301

#### Application :

For power stations and switchgear as well as stations because of small bending radius in confined spaces indoors. As underground because of light weight where installation conditions are difficult.

#### Special Features on Request

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



#### Note :

##### Conductor Shape

25 - 800 sqmm supplied in compacted circular stranded (cm) conductor shape

##### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

##### Standard Packing

25 - 300 sqmm supplied in wooden drum @ 1000 m

400 - 800 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		Current - Carrying Capacity at 30° C *				Short circuit current at 1 sec	
	DC Resistance at 20°C	AC Resistance at 90°C	Trefoil formation	Flat formation	⊗⊗⊗		⊙⊙⊙		Conductor	Screen
					in air	in ground	in air	in ground		
Max. (Ω/km)	Max. (Ω/km)	(mH/km)	(mH/km)	Max. (A)	Max. (A)	Max. (A)	Max. (A)	Max. (kA)	Max. (kA)	
25	0.727	0.927	0.415	0.461	159	152	163	156	3.58	1.14
35	0.524	0.668	0.393	0.440	193	182	198	187	5.01	1.14
50	0.387	0.494	0.377	0.423	231	215	237	220	7.15	1.14
70	0.268	0.342	0.355	0.402	290	263	297	270	10.01	1.14
95	0.193	0.247	0.340	0.387	353	314	362	322	13.59	1.14
120	0.153	0.196	0.327	0.373	407	357	418	366	17.16	1.14
150	0.124	0.159	0.318	0.364	465	401	477	410	21.45	1.14
185	0.0991	0.128	0.308	0.354	534	453	548	463	26.46	1.14
240	0.0754	0.098	0.298	0.344	632	524	649	536	34.32	1.14
300	0.0601	0.079	0.290	0.336	724	590	744	603	42.90	1.14
400	0.0470	0.064	0.281	0.327	844	670	867	685	57.20	1.14
500	0.0366	0.051	0.273	0.320	975	756	1001	772	71.50	1.14
630	0.0283	0.042	0.267	0.313	1119	847	1148	865	90.09	1.14
800	0.0221	0.035	0.259	0.305	1239	941	1308	962	114.40	1.14

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

# N2XS-Y 1 x (25-800) mm<sup>2</sup> 8.7/15 kV

## Cu / XLPE / CTS / PVC

(Copper Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed)

Standard Specification : SNI IEC 60502-2 : 2009

### Construction Data

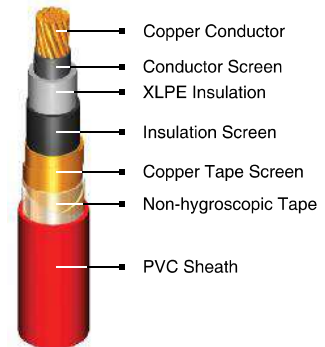
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
25	21.5	678
35	22.5	799
50	23.5	936
70	25.0	1,134
95	27.0	1,423
120	28.5	1,673
150	30.0	1,974
185	32.0	2,345
240	34.0	2,875
300	36.5	3,475
400	40.0	4,317
500	43.5	5,384
630	47.0	6,775
800	50.5	8,498

#### Application :

For power stations and switchgear as well as stations because of small bending radius in confined spaces indoors. As underground because of light weight where installation conditions are difficult.

#### Special Features on Request

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



#### Note :

##### Conductor Shape

25 - 800 sqmm supplied in compacted circular stranded (cm) conductor shape

##### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

##### Standard Packing

25 - 300 sqmm supplied in wooden drum @ 1000 m

400 - 800 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		Current - Carrying Capacity at 30° C *				Short circuit current at 1 sec	
	DC Resistance at 20°C	AC Resistance at 90°C	Trefoil formation	Flat formation	⊗⊗⊗		⊙⊙⊙		Conductor	Screen
					in air	in ground	in air	in ground		
	Max. (Ω/km)	Max. (Ω/km)	(mH/km)	(mH/km)	Max. (A)	Max. (A)	Max. (A)	Max. (A)	Max. (kA)	Max. (kA)
25	0.727	0.927	0.437	0.484	162	152	166	156	3.58	1.14
35	0.524	0.668	0.415	0.461	197	182	202	186	5.01	1.14
50	0.387	0.494	0.398	0.444	235	215	241	220	7.15	1.14
70	0.268	0.342	0.373	0.419	293	263	301	269	10.01	1.14
95	0.193	0.247	0.358	0.405	357	314	366	321	13.59	1.14
120	0.153	0.196	0.345	0.391	412	357	423	365	17.16	1.14
150	0.124	0.159	0.335	0.381	470	400	482	410	21.45	1.14
185	0.0991	0.128	0.325	0.371	539	452	553	463	26.46	1.14
240	0.0754	0.098	0.312	0.359	637	524	653	536	34.32	1.14
300	0.0601	0.079	0.304	0.350	730	590	749	603	42.90	1.14
400	0.0470	0.063	0.294	0.340	850	670	872	685	57.20	1.14
500	0.0366	0.051	0.285	0.331	982	757	1007	774	71.50	1.14
630	0.0283	0.042	0.277	0.324	1127	850	1155	868	90.09	1.14
800	0.0221	0.035	0.269	0.315	1247	945	1313	964	114.40	1.14

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

# N2XS-Y 1 x (35-800) mm<sup>2</sup> 12/20 kV

## Cu / XLPE / CTS / PVC

(Copper Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed)

Standard Specification : SNI IEC 60502-2 : 2009

### Construction Data

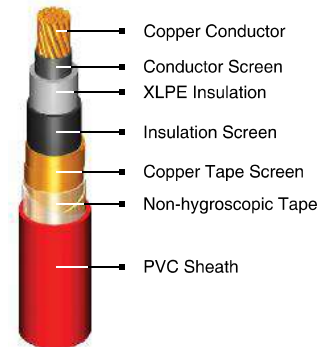
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
35	24.5	884
50	25.5	984
70	27.5	1,236
95	29.0	1,518
120	30.5	1,786
150	32.0	2,078
185	34.0	2,414
240	36.5	3,004
300	38.5	3,595
400	42.0	4,447
500	45.5	5,523
630	49.0	6,926
800	52.7	8,688

#### Application :

For power stations and switchgear as well as stations because of small bending radius in confined spaces indoors. As underground because of light weight where installation conditions are difficult.

#### Special Features on Request

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



#### Note :

##### Conductor Shape

35 - 800 sqmm supplied in compacted circular stranded (cm) conductor shape

##### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

##### Standard Packing

35 - 300 sqmm supplied in wooden drum @ 1000 m

400 - 800 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		Current - Carrying Capacity at 30° C *				Short circuit current at 1 sec	
	DC Resistance at 20°C	AC Resistance at 90°C	Trefoil formation	Flat formation	⊗⊗⊗		⊙⊙⊙		Conductor	Screen
					in air	in ground	in air	in ground		
Max. (Ω/km)	Max. (Ω/km)	(mH/km)	(mH/km)	Max. (A)	Max. (A)	Max. (A)	Max. (A)	Max. (kA)	Max. (kA)	
35	0.524	0.668	0.432	0.478	200	182	204	186	5.01	1.14
50	0.387	0.494	0.413	0.459	238	214	243	219	7.15	1.14
70	0.268	0.342	0.390	0.437	297	262	304	269	10.01	1.14
95	0.193	0.247	0.373	0.419	361	314	369	321	13.59	1.14
120	0.153	0.196	0.360	0.407	416	357	427	365	17.16	1.14
150	0.124	0.159	0.348	0.394	474	401	486	410	21.45	1.14
185	0.0991	0.128	0.337	0.384	542	452	556	462	26.46	1.14
240	0.0754	0.098	0.325	0.371	641	524	657	536	34.32	1.14
300	0.0601	0.079	0.315	0.361	735	590	753	604	42.90	1.14
400	0.0470	0.063	0.304	0.350	855	672	876	686	57.20	1.14
500	0.0366	0.051	0.294	0.341	987	759	1011	775	71.50	1.14
630	0.0283	0.041	0.286	0.332	1133	853	1160	871	90.09	1.14
800	0.0221	0.036	0.277	0.324	1253	948	1316	966	114.40	1.14

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

# N2XSYP 1 x (50-800) mm<sup>2</sup> 18/30 kV

## Cu / XLPE/ CTS / PVC

(Copper Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed)

Standard Specification : SNI IEC 60502-2 : 2009

### Construction Data

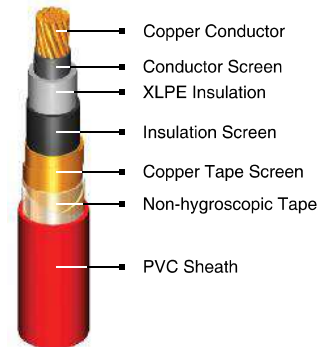
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
50	31.0	1,249
70	33.0	1,517
95	34.5	1,756
120	36.0	2,036
150	37.5	2,337
185	39.5	2,741
240	42.0	3,334
300	44.0	3,961
400	47.5	4,841
500	51.0	5,945
630	54.5	7,378
800	57.9	9,156

#### Application :

For power stations and switchgear as well as stations because of small bending radius in confined spaces indoors. As underground because of light weight where installation conditions are difficult.

#### Special Features on Request

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



#### Note :

##### Conductor Shape

50 - 800 sqmm supplied in compacted circular stranded (cm) conductor shape

##### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

##### Standard Packing

50 - 300 sqmm supplied in wooden drum @ 1000 m

400 - 800 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		Current - Carrying Capacity at 30° C *				Short circuit current at 1 sec	
	DC Resistance at 20°C	AC Resistance at 90°C	Trefoil formation	Flat formation	⊗⊗⊗		⊙⊙⊙		Conductor	Screen
					in air	in ground	in air	in ground		
Max. (Ω/km)	Max. (Ω/km)	(mH/km)	(mH/km)	Max. (A)	Max. (A)	Max. (A)	Max. (A)	Max. (kA)	Max. (kA)	
50	0.387	0.494	0.453	0.499	243	214	249	219	7.15	1.14
70	0.268	0.342	0.428	0.474	303	262	310	268	10.01	1.14
95	0.193	0.247	0.408	0.454	367	313	375	320	13.59	1.14
120	0.153	0.196	0.393	0.439	423	356	433	364	17.16	1.14
150	0.124	0.159	0.379	0.425	481	400	492	409	21.45	1.14
185	0.0991	0.127	0.368	0.414	550	451	563	462	26.46	1.14
240	0.0754	0.098	0.353	0.399	649	524	664	535	34.32	1.14
300	0.0601	0.079	0.342	0.388	742	591	760	603	42.90	1.14
400	0.0470	0.063	0.328	0.375	863	673	883	687	57.20	1.14
500	0.0366	0.050	0.318	0.364	995	762	1018	777	71.50	1.14
630	0.0283	0.041	0.308	0.354	1143	858	1168	875	90.09	1.14
800	0.0221	0.034	0.296	0.343	1265	955	1322	969	114.40	1.14

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

# N2XSEY 3 x (25-300) mm<sup>2</sup> 3.6/6 kV

## Cu / XLPE / CTS / PVC

(Copper Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed)

Standard Specification : SNI IEC 60502-2 : 2009

### Construction Data

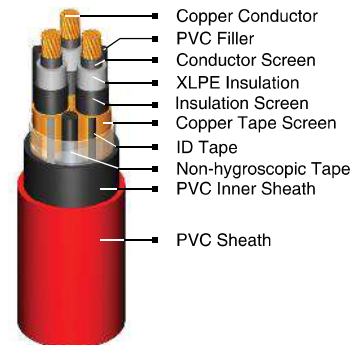
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
25	37.0	1,868
35	39.5	2,275
50	42.5	2,778
70	46.5	3,577
95	50.0	4,517
120	54.0	5,422
150	57.5	6,406
185	61.5	7,662
240	67.5	9,664
300	74.0	11,852

#### Application :

Indoors, cable trunking, outdoors and in ground;  
For power stations, industry and switchgear.

#### Special Features on Request

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



#### Note :

##### Conductor Shape

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

##### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

##### Standard Packing

25 - 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.	Conductor		Inductance	Current - Carrying Capacity at 30° C *		Short circuit current at 1 sec	
	DC Resistance at 20°C	AC Resistance at 90°C		in air	in ground	Conductor	Screen
	Max. (Ω/km)	Max. (Ω/km)		Max. (A)	Max. (A)	Max. (kA)	Max. (kA)
(mm <sup>2</sup> )			(mH/km)				
25	0.727	0.927	0.342	149	145	3.58	1.03
35	0.524	0.668	0.325	181	173	5.01	1.03
50	0.387	0.494	0.313	215	204	7.15	1.03
70	0.268	0.342	0.296	268	249	10.01	1.03
95	0.193	0.247	0.285	325	297	13.59	1.03
120	0.153	0.196	0.276	374	337	17.16	1.03
150	0.124	0.160	0.268	425	378	21.45	1.03
185	0.0991	0.128	0.262	486	426	26.46	1.03
240	0.0754	0.099	0.255	570	492	34.32	1.37
300	0.0601	0.080	0.252	648	551	42.90	1.37

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

# N2XSEY 3 x (25-300) mm<sup>2</sup> 6/10 kV

## Cu / XLPE / CTS / PVC

(Copper Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed)

Standard Specification : SNI IEC 60502-2 : 2009

### Construction Data

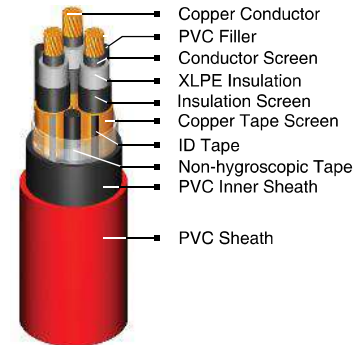
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
25	41.0	2,153
35	44.0	2,618
50	46.5	3,101
70	50.5	3,927
95	55.0	4,957
120	58.5	5,841
150	62.0	6,858
185	66.0	8,132
240	71.5	10,156
300	76.5	12,205

#### Application :

Indoors, cable trunking, outdoors and in ground;  
For power stations, industry and switchgear.

#### Special Features on Request

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



#### Note :

##### Conductor Shape

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

##### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

##### Standard Packing

25 - 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. (mm <sup>2</sup> )	Conductor		Inductance (mH/km)	Current - Carrying Capacity at 30° C *		Short circuit current at 1 sec	
	DC Resistance at 20°C	AC Resistance at 90°C		in air	in ground	Conductor	Screen
	Max. (Ω/km)	Max. (Ω/km)		Max. (A)	Max. (A)	Max. (kA)	Max. (kA)
25	0.727	0.927	0.368	152	145	3.58	1.03
35	0.524	0.668	0.349	183	173	5.01	1.03
50	0.387	0.494	0.335	218	204	7.15	1.03
70	0.268	0.342	0.316	272	249	10.01	1.03
95	0.193	0.247	0.303	328	297	13.59	1.03
120	0.153	0.196	0.293	377	337	17.16	1.03
150	0.124	0.160	0.284	428	378	21.45	1.03
185	0.0991	0.128	0.277	488	426	26.46	1.37
240	0.0754	0.099	0.267	572	491	34.32	1.37
300	0.0601	0.080	0.261	651	551	42.90	1.37

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

# N2XSEY 3 x (25-300) mm<sup>2</sup> 8.7/15 kV

## Cu / XLPE / CTS / PVC

(Copper Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed)

Standard Specification : SNI IEC 60502-2 : 2009

### Construction Data

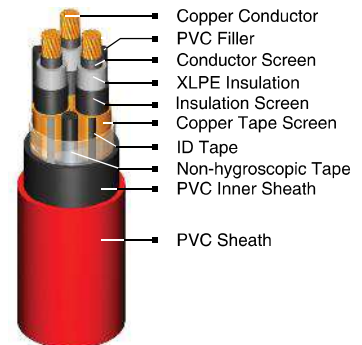
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
25	47.0	2,592
35	49.5	3,048
50	52.0	3,546
70	56.5	4,463
95	60.0	5,452
120	63.5	6,364
150	67.0	7,401
185	71.5	8,778
240	77.0	10,820
300	82.0	12,912

#### Application :

Indoors, cable trunking, outdoors and in ground;  
For power stations, industry and switchgear.

#### Special Features on Request

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



#### Note :

##### Conductor Shape

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

##### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

##### Standard Packing

25 - 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.	Conductor		Inductance	Current - Carrying Capacity at 30° C *		Short circuit current at 1 sec	
	DC Resistance at 20°C	AC Resistance at 90°C		in air	in ground	Conductor	Screen
	Max. (Ω/km)	Max. (Ω/km)		Max. (A)	Max. (A)	Max. (kA)	Max. (kA)
(mm <sup>2</sup> )			(mH/km)				
25	0.727	0.927	0.395	154	145	3.58	1.03
35	0.524	0.668	0.374	186	173	5.01	1.03
50	0.387	0.494	0.359	221	204	7.15	1.03
70	0.268	0.342	0.338	275	249	10.01	1.03
95	0.193	0.247	0.324	332	297	13.59	1.03
120	0.153	0.196	0.312	381	337	17.16	1.03
150	0.124	0.159	0.302	432	378	21.45	1.37
185	0.0991	0.128	0.294	491	425	26.46	1.37
240	0.0754	0.098	0.283	576	491	34.32	1.37
300	0.0601	0.080	0.275	654	551	42.90	1.37

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



# N2XSEY 3 x (35-300) mm<sup>2</sup> 12/20 kV

## Cu / XLPE / CTS / PVC

(Copper Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed)

Standard Specification : SNI IEC 60502-2 : 2009

### Construction Data

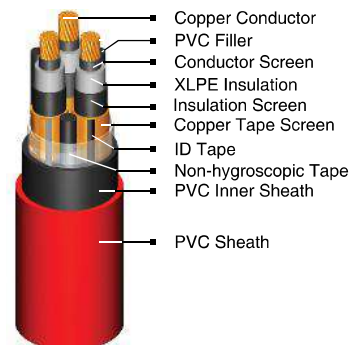
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
35	54.5	3,501
50	57.0	4,026
70	61.0	4,917
95	65.0	5,960
120	68.5	6,909
150	72.5	8,039
185	76.5	9,374
240	82.0	11,458
300	86.5	13,563

#### Application :

Indoors, cable trunking, outdoors and in ground;  
For power stations, industry and switchgear.

#### Special Features on Request

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



#### Note :

##### Conductor Shape

35 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

##### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

##### Standard Packing

35 - 300 sqmm will be supplied in wooden drum on available length

Length Tolerance per drum  $\pm$  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	
	DC Resistance at 20°C	AC Resistance at 90°C		in air	in ground	Conductor	Screen
	Max. (Ω/km)	Max. (Ω/km)		Max. (A)	Max. (A)	Max. (kA)	Max. (kA)
35	0.524	0.668	0.395	188	173	5.01	1.03
50	0.387	0.494	0.379	223	203	7.15	1.03
70	0.268	0.342	0.357	277	249	10.01	1.03
95	0.193	0.247	0.341	334	297	13.59	1.37
120	0.153	0.196	0.328	384	337	17.16	1.37
150	0.124	0.159	0.318	433	377	21.45	1.37
185	0.0991	0.128	0.308	494	425	26.46	1.37
240	0.0754	0.098	0.296	578	491	34.32	1.37
300	0.0601	0.079	0.287	657	552	42.90	1.37

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

# N2XSEY 3 x (50-300) mm<sup>2</sup> 18/30 kV

## Cu / XLPE / CTS / PVC

(Copper Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed)  
 Standard Specification : SNI IEC 60502-2 : 2009

### Construction Data

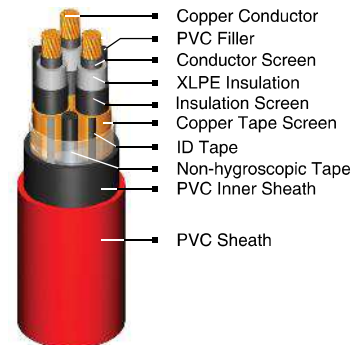
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
50	69.0	5,294
70	73.5	6,326
95	77.0	7,410
120	81.0	8,466
150	84.5	9,600
185	88.5	11,005
240	93.5	13,151
300	99.0	15,481

#### Application :

Indoors, cable trunking, outdoors and in ground;  
 For power stations, industry and switchgear.

#### Special Features on Request

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



#### Note :

##### Conductor Shape

50 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

##### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

##### Standard Packing

50 - 300 sqmm will be supplied in wooden drum on available length  
 Length Tolerance per drum  $\pm$  2%

### Electrical Data

Nom. Cross Sect.	Conductor		Inductance	Current - Carrying Capacity at 30° C *		Short circuit current at 1 sec	
	DC Resistance at 20°C	AC Resistance at 90°C		in air	in ground	Conductor	Screen
	Max. (Ω/km)	Max. (Ω/km)		Max. (A)	Max. (A)	Max. (kA)	Max. (kA)
(mm <sup>2</sup> )			(mH/km)				
50	0.387	0.494	0.421	227	203	7.15	1.37
70	0.268	0.342	0.396	280	248	10.01	1.37
95	0.193	0.247	0.378	338	296	13.59	1.37
120	0.153	0.196	0.364	387	336	17.16	1.37
150	0.124	0.159	0.351	438	377	21.45	1.37
185	0.0991	0.128	0.340	498	425	26.46	1.37
240	0.0754	0.098	0.326	583	491	34.32	1.37
300	0.0601	0.079	0.315	660	552	42.90	1.37

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

# N2XSEBY 3 x (25-300) mm<sup>2</sup> 3.6/6 kV

## Cu / XLPE / CTS / PVC / STA / PVC

(Copper Conductor, XLPE Insulated, Copper Tape Screen, Galvanized Steel Tape Armor, PVC Sheathed)  
Standard Specification : SNI IEC 60502-2 : 2009

### Construction Data

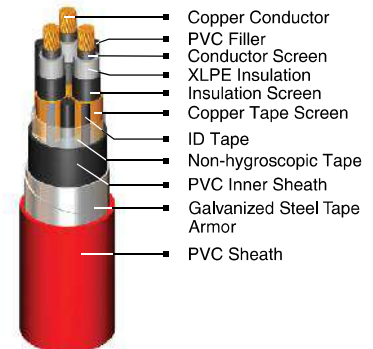
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
25	38.5	2,417
35	41.0	2,865
50	44.0	3,391
70	48.0	4,272
95	51.5	5,266
120	55.5	6,232
150	59.0	7,271
185	63.0	8,585
240	69.0	10,679
300	75.5	12,965

#### Application :

For installation indoor, in ground direct burried, for power station and switchgear, if there is a risk that low mechanical damage may occur.

#### Special Features on Request

- Tinned Coated Copper Conductor
- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen



#### Note :

##### Conductor Shape

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

##### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

##### Standard Packing

25 - 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 (mH/km)	Current - Carrying Capacity at 30° C *		Short circuit current at 1 sec	
	DC Resistance at 20°C	AC Resistance at 90°C		in air	in ground	Conductor	Screen
	Max. (Ω/km)	Max. (Ω/km)		Max. (A)	Max. (A)	Max. (kA)	Max. (kA)
25	0.727	0.927	0.342	152	146	3.58	1.03
35	0.524	0.668	0.325	184	175	5.01	1.03
50	0.387	0.494	0.313	219	206	7.15	1.03
70	0.268	0.342	0.296	273	251	10.01	1.03
95	0.193	0.247	0.285	330	299	13.59	1.03
120	0.153	0.196	0.276	379	339	17.16	1.03
150	0.124	0.160	0.268	430	380	21.45	1.03
185	0.0991	0.128	0.262	491	427	26.46	1.03
240	0.0754	0.099	0.255	575	492	34.32	1.37
300	0.0601	0.080	0.252	651	549	42.90	1.37

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

# N2XSEBY 3 x (25-300) mm<sup>2</sup> 6/10 kV

## Cu / XLPE / CTS / PVC / STA / PVC

(Copper Conductor, XLPE Insulated, Copper Tape Screen, Galvanized Steel Tape Armor, PVC Sheathed)

Standard Specification : SNI IEC 60502-2 : 2009

### Construction Data

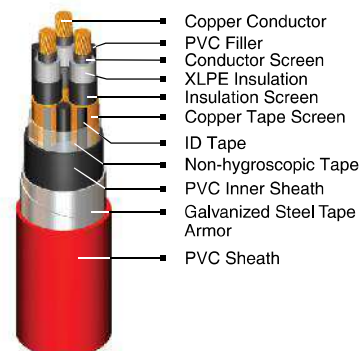
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
25	43.0	2,767
35	46.0	3,279
50	48.5	3,799
70	52.5	4,687
95	56.5	5,753
120	60.0	6,690
150	63.5	7,761
185	67.5	9,091
240	73.0	11,235
300	78.0	13,326

#### Application :

For installation indoor, in ground direct burried, for power station and switchgear, if there is a risk that low mechanical damage may occur.

#### Special Features on Request

- Tinned Coated Copper Conductor
- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen



#### Note :

##### Conductor Shape

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

##### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

##### Standard Packing

25 - 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. (mm <sup>2</sup> )	Conductor		Inductance (mH/km)	Current - Carrying Capacity at 30° C *		Short circuit current at 1 sec	
	DC Resistance at 20°C	AC Resistance at 90°C		in air	in ground	Conductor	Screen
	Max. (Ω/km)	Max. (Ω/km)		Max. (A)	Max. (A)	Max. (kA)	Max. (kA)
25	0.727	0.927	0.368	154	146	3.58	1.03
35	0.524	0.668	0.349	186	175	5.01	1.03
50	0.387	0.494	0.335	222	205	7.15	1.03
70	0.268	0.342	0.316	276	251	10.01	1.03
95	0.193	0.247	0.303	333	299	13.59	1.03
120	0.153	0.196	0.293	382	339	17.16	1.03
150	0.124	0.160	0.284	433	380	21.45	1.03
185	0.0991	0.128	0.277	493	427	26.46	1.37
240	0.0754	0.099	0.267	576	491	34.32	1.37
300	0.0601	0.080	0.261	654	550	42.90	1.37

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

# N2XSEBY 3 x (25-300) mm<sup>2</sup> 8.7/15 kV

## Cu / XLPE / CTS / PVC / STA / PVC

(Copper Conductor, XLPE Insulated, Copper Tape Screen, Galvanized Steel Tape Armor, PVC Sheathed)  
Standard Specification : SNI IEC 60502-2 : 2009

### Construction Data

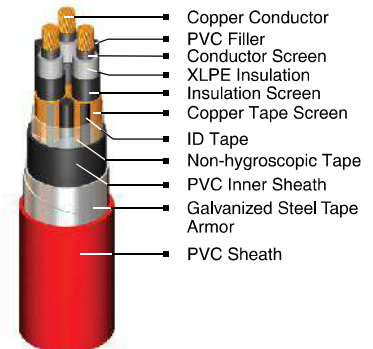
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
25	48.5	3,293
35	51.0	3,790
50	53.5	4,324
70	58.0	5,310
95	61.5	6,354
120	65.0	7,321
150	69.0	8,412
185	73.0	9,854
240	78.5	11,980
300	85.0	14,914

#### Application :

For installation indoor, in ground direct burried, for power station and switchgear, if there is a risk that low mechanical damage may occur.

#### Special Features on Request

- Tinned Coated Copper Conductor
- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen



#### Note :

##### Conductor Shape

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

##### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

##### Standard Packing

25 sqmm supplied in wooden drum @ 1000 m

35 - 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 at 30° C *		Short circuit current at 1 sec	
	DC Resistance at 20°C	AC Resistance at 90°C		in air	in ground	Conductor	Screen
	Max. (Ω/km)	Max. (Ω/km)		Max. (A)	Max. (A)	Max. (kA)	Max. (kA)
(mm <sup>2</sup> )			(mH/km)				
25	0.727	0.927	0.395	156	146	3.58	1.03
35	0.524	0.668	0.374	189	174	5.01	1.03
50	0.387	0.494	0.359	224	205	7.15	1.03
70	0.268	0.342	0.338	278	250	10.01	1.03
95	0.193	0.247	0.324	336	298	13.59	1.03
120	0.153	0.196	0.312	385	339	17.16	1.03
150	0.124	0.159	0.302	436	379	21.45	1.37
185	0.0991	0.128	0.294	495	426	26.46	1.37
240	0.0754	0.098	0.283	578	490	34.32	1.37
300	0.0601	0.080	0.275	654	546	42.90	1.37

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

# N2XSEBY 3 x (35-300) mm<sup>2</sup> 12/20 kV

## Cu / XLPE / CTS / PVC / STA / PVC

(Copper Conductor, XLPE Insulated, Copper Tape Screen, Galvanized Steel Tape Armor, PVC Sheathed)

Standard Specification : SNI IEC 60502-2 : 2009

### Construction Data

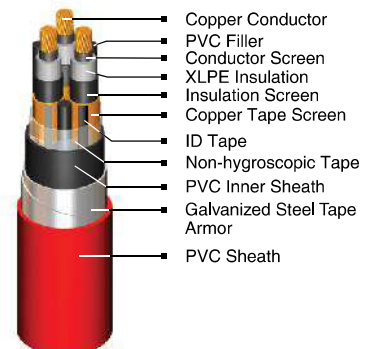
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
35	56.5	4,322
50	59.0	4,883
70	63.0	5,836
95	66.5	6,905
120	70.0	7,907
150	74.0	9,096
185	77.5	10,488
240	84.5	13,454
300	89.5	15,722

#### Application :

For installation indoor, in ground direct burried, for power station and switchgear, if there is a risk that low mechanical damage may occur.

#### Special Features on Request

- Tinned Coated Copper Conductor
- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen



#### Note :

##### Conductor Shape

35 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

##### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

##### Standard Packing

35 - 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	
	DC Resistance at 20°C	AC Resistance at 90°C		in air	in ground	Conductor	Screen
	Max. (Ω/km)	Max. (Ω/km)		Max. (A)	Max. (A)	Max. (kA)	Max. (kA)
35	0.524	0.668	0.395	190	174	5.01	1.03
50	0.387	0.494	0.379	226	205	7.15	1.03
70	0.268	0.342	0.357	280	250	10.01	1.03
95	0.193	0.247	0.341	338	298	13.59	1.37
120	0.153	0.196	0.328	387	338	17.16	1.37
150	0.124	0.159	0.318	437	378	21.45	1.37
185	0.0991	0.128	0.308	497	426	26.46	1.37
240	0.0754	0.098	0.296	580	488	34.32	1.37
300	0.0601	0.079	0.287	655	545	42.90	1.37

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

# N2XSEBY 3 x (50-300) mm<sup>2</sup> 18/30 kV

## Cu / XLPE / CTS / PVC / STA / PVC

(Copper Conductor, XLPE Insulated, Copper Tape Screen, Galvanized Steel Tape Armor, PVC Sheathed)

Standard Specification : SNI IEC 60502-2 : 2009

### Construction Data

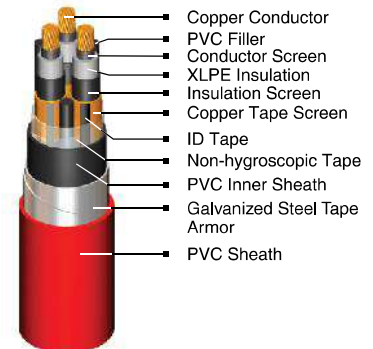
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
50	71.0	6,335
70	75.0	7,435
95	79.0	8,574
120	83.5	10,439
150	87.0	11,661
185	91.0	13,200
240	96.5	15,483
300	102.0	17,950

#### Application :

For installation indoor, in ground direct buried, for power station and switchgear, if there is a risk that low mechanical damage may occur.

#### Special Features on Request

- Tinned Coated Copper Conductor
- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen



#### Note :

##### Conductor Shape

50 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

##### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

##### Standard Packing

50 - 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 at 30° C *		Short circuit current at 1 sec	
	DC Resistance at 20°C	AC Resistance at 90°C		in air	in ground	Conductor	Screen
	Max. (Ω/km)	Max. (Ω/km)		Max. (A)	Max. (A)	Max. (kA)	Max. (kA)
(mm <sup>2</sup> )			(mH/km)				
50	0.387	0.494	0.421	229	204	7.15	1.37
70	0.268	0.342	0.396	282	249	10.01	1.37
95	0.193	0.247	0.378	340	297	13.59	1.37
120	0.153	0.196	0.364	390	336	17.16	1.37
150	0.124	0.159	0.351	441	376	21.45	1.37
185	0.0991	0.128	0.340	500	423	26.46	1.37
240	0.0754	0.098	0.326	582	486	34.32	1.37
300	0.0601	0.079	0.315	656	543	42.90	1.37

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

# N2XSEFGbY 3 x (25-300) mm<sup>2</sup> 3.6/6 kV

## Cu / XLPE / CTS / PVC / SFWA / PVC

(Copper Conductor, XLPE Insulated, Copper Tape Screen, Galvanized Steel Flat Wire Armor, PVC Sheathed)  
Standard Specification : SNI IEC 60502-2 : 2009

### Construction Data

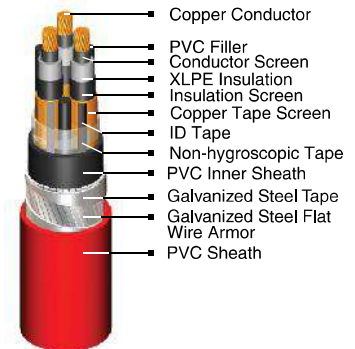
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
25	38.5	2,603
35	41.5	3,074
50	44.5	3,641
70	48.5	4,536
95	52.0	5,542
120	56.0	6,516
150	59.5	7,593
185	63.0	8,940
240	69.0	11,074
300	75.5	13,395

#### Application :

For installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

#### Special Features on Request

- Tinned Coated Copper Conductor
- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen



#### Note :

##### Conductor Shape

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

##### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

##### Standard Packing

25 - 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 at 30° C *		Short circuit current at 1 sec	
	DC Resistance at 20°C	AC Resistance at 90°C		in air	in ground	Conductor	Screen
	Max. (Ω/km)	Max. (Ω/km)		Max. (A)	Max. (A)	Max. (kA)	Max. (kA)
(mm <sup>2</sup> )			(mH/km)				
25	0.727	0.927	0.342	152	147	3.58	1.03
35	0.524	0.668	0.325	185	175	5.01	1.03
50	0.387	0.494	0.313	219	205	7.15	1.03
70	0.268	0.342	0.296	273	251	10.01	1.03
95	0.193	0.247	0.285	330	299	13.59	1.03
120	0.153	0.196	0.276	379	339	17.16	1.03
150	0.124	0.160	0.268	430	379	21.45	1.03
185	0.0991	0.128	0.262	490	427	26.46	1.03
240	0.0754	0.099	0.255	573	490	34.32	1.37
300	0.0601	0.080	0.252	649	547	42.90	1.37

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



# N2XSEFGbY 3 x (25-300) mm<sup>2</sup> 6/10 kV

## Cu / XLPE / CTS / PVC / SFWA / PVC

(Copper Conductor, XLPE Insulated, Copper Tape Screen, Galvanized Steel Flat Wire Armor, PVC Sheathed)  
 Standard Specification : SNI IEC 60502-2 : 2009

### Construction Data

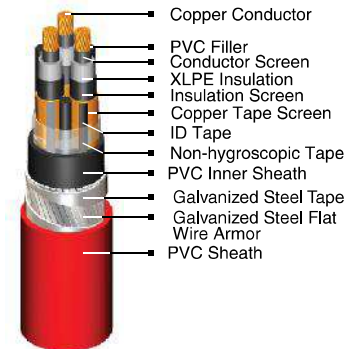
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
25	43.0	2,984
35	46.0	3,515
50	48.5	4,061
70	52.5	4,955
95	56.5	6,055
120	60.0	7,026
150	63.5	8,110
185	67.5	9,478
240	73.5	11,663
300	78.5	13,814

#### Application :

For installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

#### Special Features on Request

- Tinned Coated Copper Conductor
- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen



#### Note :

##### Conductor Shape

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

##### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

##### Standard Packing

25 - 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	
	DC Resistance at 20°C	AC Resistance at 90°C		in air	in ground	Conductor	Screen
	Max. (Ω/km)	Max. (Ω/km)		Max. (A)	Max. (A)	Max. (kA)	Max. (kA)
25	0.727	0.927	0.368	155	147	3.58	1.03
35	0.524	0.668	0.349	187	175	5.01	1.03
50	0.387	0.494	0.335	222	205	7.15	1.03
70	0.268	0.342	0.316	276	251	10.01	1.03
95	0.193	0.247	0.303	333	298	13.59	1.03
120	0.153	0.196	0.293	382	339	17.16	1.03
150	0.124	0.160	0.284	433	379	21.45	1.03
185	0.0991	0.128	0.277	493	426	26.46	1.37
240	0.0754	0.099	0.267	574	489	34.32	1.37
300	0.0601	0.080	0.261	650	546	42.90	1.37

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

# N2XSEFGbY 3 x (25-300) mm<sup>2</sup> 8.7/15 kV

## Cu / XLPE / CTS / PVC / SFWA / PVC

(Copper Conductor, XLPE Insulated, Copper Tape Screen, Galvanized Steel Flat Wire Armor, PVC Sheathed)  
Standard Specification : SNI IEC 60502-2 : 2009

### Construction Data

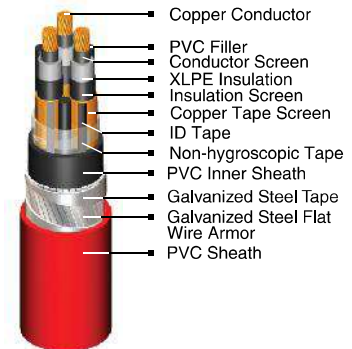
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
25	49.0	3,552
35	51.5	4,072
50	54.0	4,606
70	58.5	5,619
95	62.0	6,697
120	65.5	7,705
150	69.0	8,810
185	73.0	10,284
240	79.0	12,429
300	83.5	14,586

#### Application :

For installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

#### Special Features on Request

- Tinned Coated Copper Conductor
- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen



#### Note :

##### Conductor Shape

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

##### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

##### Standard Packing

25 sqmm supplied in wooden drum @ 1000 m

35 - 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 at 30° C *		Short circuit current at 1 sec	
	DC Resistance at 20°C	AC Resistance at 90°C		in air	in ground	Conductor	Screen
	Max. (Ω/km)	Max. (Ω/km)		Max. (A)	Max. (A)	Max. (kA)	Max. (kA)
(mm <sup>2</sup> )			(mH/km)				
25	0.727	0.927	0.395	156	146	3.58	1.03
35	0.524	0.668	0.374	189	174	5.01	1.03
50	0.387	0.494	0.359	225	205	7.15	1.03
70	0.268	0.342	0.338	278	250	10.01	1.03
95	0.193	0.247	0.324	336	298	13.59	1.03
120	0.153	0.196	0.312	385	338	17.16	1.03
150	0.124	0.159	0.302	435	378	21.45	1.37
185	0.0991	0.128	0.294	494	424	26.46	1.37
240	0.0754	0.098	0.283	577	488	34.32	1.37
300	0.0601	0.080	0.275	654	547	42.90	1.37

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

# N2XSEFGbY 3 x (35-300) mm<sup>2</sup> 12/20 kV

## Cu / XLPE / CTS / PVC / SFWA / PVC

(Copper Conductor, XLPE Insulated, Copper Tape Screen, Galvanized Steel Flat Wire Armor, PVC Sheathed)  
 Standard Specification : SNI IEC 60502-2 : 2009

### Construction Data

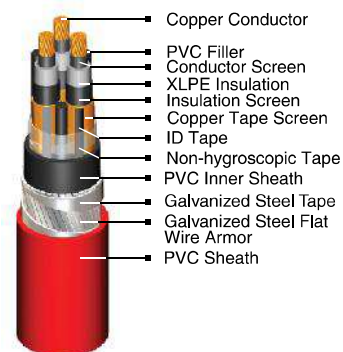
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
35	56.5	4,624
50	59.0	5,185
70	63.0	6,194
95	66.5	7,276
120	70.0	8,318
150	74.0	9,516
185	78.0	10,981
240	83.5	13,130
300	88.5	15,374

#### Application :

For installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

#### Special Features on Request

- Tinned Coated Copper Conductor
- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen



#### Note :

##### Conductor Shape

35 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

##### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

##### Standard Packing

35 - 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	
	DC Resistance at 20°C	AC Resistance at 90°C		in air	in ground	Conductor	Screen
	Max. (Ω/km)	Max. (Ω/km)		Max. (A)	Max. (A)	Max. (kA)	Max. (kA)
35	0.524	0.668	0.395	190	174	5.01	1.03
50	0.387	0.494	0.379	226	205	7.15	1.03
70	0.268	0.342	0.357	280	250	10.01	1.03
95	0.193	0.247	0.341	338	298	13.59	1.37
120	0.153	0.196	0.328	387	338	17.16	1.37
150	0.124	0.159	0.318	437	377	21.45	1.37
185	0.0991	0.128	0.308	496	424	26.46	1.37
240	0.0754	0.098	0.296	579	488	34.32	1.37
300	0.0601	0.079	0.287	655	546	42.90	1.37

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

# N2XSEFGbY 3 x (50-300) mm<sup>2</sup> 18/30 kV

## Cu / XLPE / CTS / PVC / SFWA / PVC

(Copper Conductor, XLPE Insulated, Copper Tape Screen, Galvanized Steel Flat Wire Armor, PVC Sheathed)  
Standard Specification : SNI IEC 60502-2 : 2009

### Construction Data

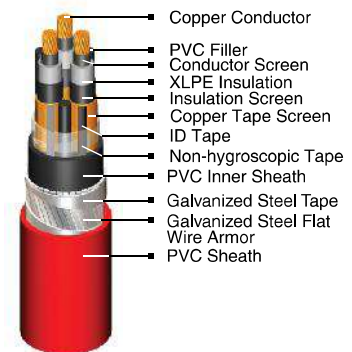
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
50	71.0	6,738
70	75.5	7,869
95	79.0	9,021
120	82.5	10,109
150	86.0	11,335
185	90.0	12,808
240	95.5	15,124
300	101.0	17,512

#### Application :

For installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

#### Special Features on Request

- Tinned Coated Copper Conductor
- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen



#### Note :

##### Conductor Shape

50 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

##### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

##### Standard Packing

50 - 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 at 30° C *		Short circuit current at 1 sec	
	DC Resistance at 20°C	AC Resistance at 90°C		in air	in ground	Conductor	Screen
	Max. (Ω/km)	Max. (Ω/km)		Max. (A)	Max. (A)	Max. (kA)	Max. (kA)
(mm <sup>2</sup> )			(mH/km)				
50	0.387	0.494	0.421	229	204	7.15	1.37
70	0.268	0.342	0.396	282	249	10.01	1.37
95	0.193	0.247	0.378	340	296	13.59	1.37
120	0.153	0.196	0.364	389	336	17.16	1.37
150	0.124	0.159	0.351	440	376	21.45	1.37
185	0.0991	0.128	0.340	500	423	26.46	1.37
240	0.0754	0.098	0.326	582	487	34.32	1.37
300	0.0601	0.079	0.315	657	545	42.90	1.37

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

# NA2XS<sub>Y</sub> 1 x (25-800) mm<sup>2</sup> 3.6/6 kV

## AI / XLPE/ CTS / PVC

(Aluminium Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed)

Standard Specification : SNI IEC 60502-2 : 2009

### Construction Data

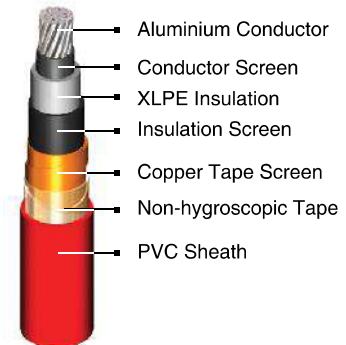
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
25	16.9	374
35	18.1	431
50	19.1	492
70	21.0	593
95	23.0	706
120	24.5	807
150	25.5	867
185	27.5	1,018
240	30.0	1,243
300	32.5	1,474
400	36.5	1,777
500	40.0	2,178
630	45.0	2,700
800	47.7	3,295

#### Application :

For power stations and switchgear as well as stations because of small bending radius in confined spaces indoors. As underground because of light weight where installation conditions are difficult.

#### Special Features on Request

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



#### Note :

##### Conductor Shape

25 - 800 sqmm supplied in compacted circular stranded (cm) conductor shape

##### Standard Packing

25 - 800 sqmm supplied in wooden drum @ 1000 m  
Length Tolerance per drum ± 2%

### Electrical Data

Nom. Cross Sect. (mm <sup>2</sup> )	Conductor		Inductance		Current - Carrying Capacity at 30° C *				Short circuit current at 1 sec	
	DC Resistance at 20°C Max. (Ω/km)	AC Resistance at 90°C Max. (Ω/km)	Trefoil formation (mH/km)	Flat formation (mH/km)	⊕⊕⊕		⊙⊙⊙		Conductor Max. (kA)	Screen Max. (kA)
					in air Max. (A)	in ground Max. (A)	in air Max. (A)	in ground Max. (A)		
25	1.20	1.539	0.399	0.445	120	117	123	121	2.35	1.14
35	0.868	1.113	0.376	0.422	147	141	151	145	3.29	1.14
50	0.641	0.822	0.360	0.407	176	166	181	171	4.70	1.14
70	0.443	0.568	0.339	0.385	222	204	228	210	6.58	1.14
95	0.320	0.411	0.324	0.370	271	244	278	251	8.93	1.14
120	0.253	0.325	0.313	0.359	313	278	322	285	11.28	1.14
150	0.206	0.265	0.303	0.350	355	311	365	319	14.10	1.14
185	0.164	0.211	0.295	0.341	412	353	423	362	17.39	1.14
240	0.125	0.162	0.288	0.335	489	409	502	419	22.56	1.14
300	0.100	0.130	0.283	0.330	563	461	579	473	28.20	1.14
400	0.0778	0.102	0.277	0.323	665	529	684	542	37.60	1.14
500	0.0605	0.081	0.273	0.319	774	603	796	618	47.00	1.14
630	0.0469	0.064	0.264	0.310	914	690	939	706	59.22	1.14
800	0.0367	0.052	0.258	0.304	1025	779	1069	787	75.20	1.14

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

# NA2XS<sub>Y</sub> 1 x (25-800) mm<sup>2</sup> 6/10 kV

## AI / XLPE/ CTS / PVC

(Aluminium Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed)

Standard Specification : SNI IEC 60502-2 : 2009

### Construction Data

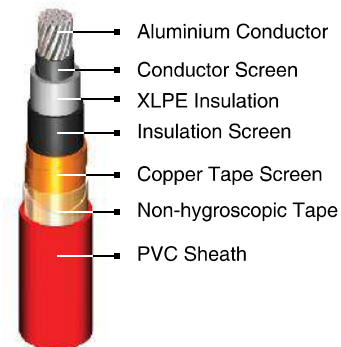
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
25	18.7	437
35	19.9	497
50	21.0	561
70	23.0	666
95	24.5	744
120	26.0	847
150	27.5	961
185	29.5	1,104
240	31.5	1,326
300	34.0	1,500
400	37.5	1,824
500	40.5	2,204
630	45.0	2,728
800	48.1	3,326

#### Application :

For power stations and switchgear as well as stations because of small bending radius in confined spaces indoors. As underground because of light weight where installation conditions are difficult.

#### Special Features on Request

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



#### Note :



##### Conductor Shape

25 - 800 sqmm supplied in compacted circular stranded (cm) conductor shape

##### Standard Packing

25 - 800 sqmm supplied in wooden drum @ 1000 m  
Length Tolerance per drum ± 2%

### Electrical Data

Conductor			Inductance		Current - Carrying Capacity at 30° C *				Short circuit current at 1 sec	
Nom. Cross Sect.	DC Resistance at 20°C	AC Resistance at 90°C	Trefoil formation	Flat formation	⊗⊗⊗		⊙⊙⊙		Conductor	Screen
	Max. (Ω/km)	Max. (Ω/km)			in air	in ground	in air	in ground		
(mm <sup>2</sup> )			(mH/km)	(mH/km)	Max. (A)	Max. (A)	Max. (A)	Max. (A)		
25	1.20	1.539	0.419	0.466	123	118	126	121	2.35	1.14
35	0.868	1.113	0.395	0.441	150	141	153	144	3.29	1.14
50	0.641	0.822	0.379	0.425	179	166	183	170	4.70	1.14
70	0.443	0.568	0.355	0.402	225	204	231	209	6.58	1.14
95	0.320	0.411	0.338	0.384	273	244	281	250	8.93	1.14
120	0.253	0.325	0.327	0.373	316	278	325	285	11.28	1.14
150	0.206	0.265	0.319	0.365	360	311	369	318	14.10	1.14
185	0.164	0.211	0.308	0.354	416	353	427	361	17.39	1.14
240	0.125	0.162	0.299	0.345	492	409	506	419	22.56	1.14
300	0.100	0.130	0.291	0.337	565	461	581	472	28.20	1.14
400	0.0778	0.102	0.281	0.327	667	530	686	542	37.60	1.14
500	0.0605	0.081	0.275	0.321	775	603	797	618	47.00	1.14
630	0.0469	0.064	0.265	0.312	915	690	940	706	59.22	1.14
800	0.0367	0.052	0.259	0.305	1025	779	1070	787	75.20	1.14

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

# NA2XS<sub>Y</sub> 1 x (25-800) mm<sup>2</sup> 8.7/15 kV

## AI / XLPE / CTS / PVC

(Aluminium Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed)

Standard Specification : SNI IEC 60502-2 : 2009

### Construction Data

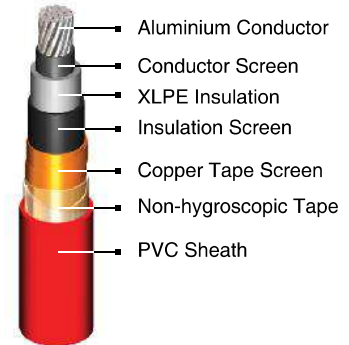
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
25	21.0	520
35	22.5	584
50	23.5	651
70	25.0	722
95	27.0	853
120	28.5	961
150	30.0	1,081
185	32.0	1,231
240	34.0	1,406
300	36.5	1,640
400	40.0	1,977
500	42.5	2,368
630	47.5	2,910
800	50.5	3,523

#### Application :

For power stations and switchgear as well as stations because of small bending radius in confined spaces indoors. As underground because of light weight where installation conditions are difficult.

#### Special Features on Request

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



#### Note :

##### Conductor Shape

25 - 800 sqmm supplied in compacted circular stranded (cm) conductor shape

##### Standard Packing

25 - 800 sqmm supplied in wooden drum @ 1000 m  
Length Tolerance per drum ± 2%

### Electrical Data

Nom. Cross Sect. (mm <sup>2</sup> )	Conductor		Inductance		Current - Carrying Capacity at 30° C *				Short circuit current at 1 sec	
	DC Resistance at 20°C Max. (Ω/km)	AC Resistance at 90°C Max. (Ω/km)	Trefoil formation	Flat formation	⊗⊗⊗		⊙⊙⊙		Conductor Max. (kA)	Screen Max. (kA)
			(mH/km)	(mH/km)	in air Max. (A)	in ground Max. (A)	in air Max. (A)	in ground Max. (A)		
25	1.20	1.539	0.442	0.488	125	118	128	120	2.35	1.14
35	0.868	1.113	0.416	0.463	152	141	156	144	3.29	1.14
50	0.641	0.822	0.399	0.445	182	166	186	170	4.70	1.14
70	0.443	0.568	0.373	0.419	228	204	234	209	6.58	1.14
95	0.320	0.411	0.357	0.404	277	244	285	250	8.93	1.14
120	0.253	0.325	0.345	0.391	321	277	329	284	11.28	1.14
150	0.206	0.265	0.336	0.383	364	310	373	318	14.10	1.14
185	0.164	0.211	0.325	0.371	420	352	431	361	17.39	1.14
240	0.125	0.161	0.313	0.360	496	408	509	418	22.56	1.14
300	0.100	0.130	0.305	0.352	569	461	584	472	28.20	1.14
400	0.0778	0.102	0.294	0.340	671	530	689	542	37.60	1.14
500	0.0605	0.080	0.287	0.333	779	603	800	618	47.00	1.14
630	0.0469	0.064	0.276	0.322	919	691	943	707	59.22	1.14
800	0.0367	0.052	0.269	0.315	1029	780	1071	787	75.20	1.14

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

# NA2XS<sub>Y</sub> 1 x (35-800) mm<sup>2</sup> 12/20 kV

## AI / XLPE/ CTS / PVC

(Aluminium Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed)

Standard Specification : SNI IEC 60502-2 : 2009

### Construction Data

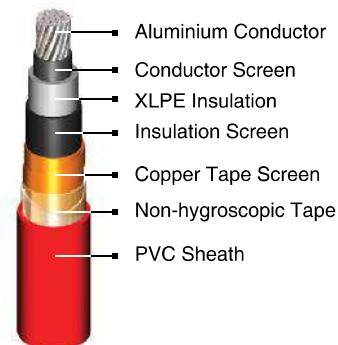
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
35	24.5	669
50	25.5	698
70	27.5	824
95	29.0	948
120	30.5	1,074
150	32.0	1,185
185	34.0	1,300
240	36.5	1,535
300	38.5	1,759
400	42.0	2,107
500	45.0	2,506
630	49.5	3,063
800	52.7	3,713

#### Application :

For power stations and switchgear as well as stations because of small bending radius in confined spaces indoors. As underground because of light weight where installation conditions are difficult.

#### Special Features on Request

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



#### Note :





##### Conductor Shape

25 - 800 sqmm supplied in compacted circular stranded (cm) conductor shape

##### Standard Packing

25 - 800 sqmm supplied in wooden drum @ 1000 m  
Length Tolerance per drum ± 2%

### Electrical Data

Nom. Cross Sect. (mm <sup>2</sup> )	Conductor		Inductance		Current - Carrying Capacity at 30° C *				Short circuit current at 1 sec	
	DC Resistance at 20°C	AC Resistance at 90°C	Trefoil formation 	Flat formation 					Conductor	Screen
					in air	in ground	in air	in ground		
Max. (Ω/km)	Max. (Ω/km)	(mH/km)	(mH/km)	Max. (A)	Max. (A)	Max. (A)	Max. (A)	Max. (kA)	Max. (kA)	
35	0.868	1.113	0.434	0.480	154	141	158	144	3.29	1.14
50	0.641	0.822	0.415	0.461	184	166	188	170	4.70	1.14
70	0.443	0.568	0.390	0.437	230	204	236	209	6.58	1.14
95	0.320	0.411	0.372	0.418	280	244	287	249	8.93	1.14
120	0.253	0.325	0.360	0.407	324	277	332	284	11.28	1.14
150	0.206	0.265	0.350	0.396	367	310	376	318	14.10	1.14
185	0.164	0.211	0.337	0.384	422	352	433	360	17.39	1.14
240	0.125	0.161	0.326	0.372	499	408	512	418	22.56	1.14
300	0.100	0.130	0.316	0.363	572	461	587	472	28.20	1.14
400	0.0778	0.102	0.304	0.350	674	530	692	542	37.60	1.14
500	0.0605	0.080	0.296	0.342	782	604	802	618	47.00	1.14
630	0.0469	0.064	0.285	0.331	921	692	945	708	59.22	1.14
800	0.0367	0.051	0.277	0.324	1031	780	1071	787	75.20	1.14

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



# NA2XS<sub>Y</sub> 1 x (50-800) mm<sup>2</sup> 18/30 kV

## AI / XLPE/ CTS / PVC

(Aluminium Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed)

Standard Specification : SNI IEC 60502-2 : 2009

### Construction Data

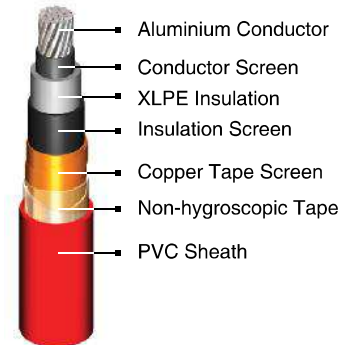
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
50	31.0	963
70	33.0	1,105
95	34.5	1,187
120	36.0	1,324
150	37.5	1,443
185	39.5	1,628
240	41.5	1,863
300	44.0	2,123
400	47.5	2,500
500	50.5	2,923
630	55.0	3,520
800	57.9	4,180

#### Application :

For power stations and switchgear as well as stations because of small bending radius in confined spaces indoors. As underground because of light weight where installation conditions are difficult.

#### Special Features on Request

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



#### Note :

##### Conductor Shape

50 - 800 sqmm supplied in compacted circular stranded (cm) conductor shape

##### Standard Packing

50 - 400 sqmm supplied in wooden drum @ 1000 m

500 - 800 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		Current - Carrying Capacity at 30° C *				Short circuit current at 1 sec	
	DC Resistance at 20°C Max. (Ω/km)	AC Resistance at 90°C Max. (Ω/km)	Trefoil formation	Flat formation	⊗⊗⊗		⊙⊙⊙		Conductor Max. (kA)	Screen Max. (kA)
			(mH/km)	(mH/km)	in air Max. (A)	in ground Max. (A)	in air Max. (A)	in ground Max. (A)		
50	0.641	0.822	0.455	0.501	188	166	192	169	4.70	1.14
70	0.443	0.568	0.428	0.474	235	203	241	208	6.58	1.14
95	0.320	0.411	0.406	0.453	285	243	292	249	8.93	1.14
120	0.253	0.325	0.393	0.439	328	277	336	283	11.28	1.14
150	0.206	0.265	0.381	0.427	372	310	381	317	14.10	1.14
185	0.164	0.211	0.368	0.414	428	351	438	360	17.39	1.14
240	0.125	0.161	0.354	0.400	504	408	516	417	22.56	1.14
300	0.100	0.129	0.344	0.390	577	460	592	471	28.20	1.14
400	0.0778	0.101	0.329	0.375	679	530	695	542	37.60	1.14
500	0.0605	0.080	0.320	0.366	787	604	806	618	47.00	1.14
630	0.0469	0.063	0.306	0.352	925	693	948	708	59.22	1.14
800	0.0367	0.051	0.296	0.343	1036	782	1073	787	75.20	1.14

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

# NA2XSEY 3 x (25-300) mm<sup>2</sup> 3.6/6 kV AI / XLPE / CTS / PVC

(Aluminium Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed)  
Standard Specification : SNI IEC 60502-2 : 2009

## Construction Data

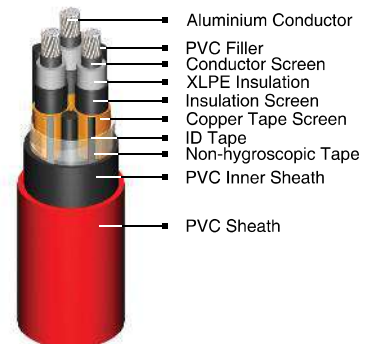
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
25	36.5	1,380
35	39.5	1,620
50	42.0	1,908
70	46.5	2,322
95	50.0	2,781
120	54.0	3,252
150	57.0	3,673
185	61.5	4,268
240	67.0	5,172
300	73.0	6,226

### Application :

Indoors, cable trunking, outdoors and in ground;  
For power stations, industry and switchgear.

### Special Features on Request

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



### Note :

#### Conductor Shape

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

#### Standard Packing

25 - 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	
	DC Resistance at 20°C	AC Resistance at 90°C		in air	in ground	Conductor	Screen
	Max. (Ω/km)	Max. (Ω/km)		Max. (A)	Max. (A)	Max. (kA)	Max. (kA)
25	1.20	1.539	0.346	115	112	2.35	1.03
35	0.868	1.113	0.326	140	134	3.29	1.03
50	0.641	0.822	0.314	166	158	4.70	1.03
70	0.443	0.568	0.296	208	193	6.58	1.03
95	0.320	0.411	0.284	253	231	8.93	1.03
120	0.253	0.325	0.276	291	262	11.28	1.03
150	0.206	0.265	0.269	329	293	14.10	1.03
185	0.164	0.212	0.262	379	333	17.39	1.03
240	0.125	0.162	0.256	446	385	22.56	1.37
300	0.100	0.130	0.253	508	433	28.20	1.37

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

# NA2XSEY 3 x (25-300) mm<sup>2</sup> 6/10 kV

## AI / XLPE / CTS / PVC

(Aluminium Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed)

Standard Specification : SNI IEC 60502-2 : 2009

### Construction Data

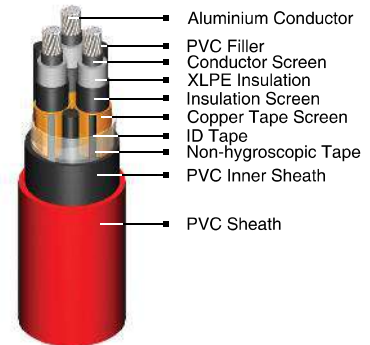
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
25	40.5	1,663
35	44.0	1,962
50	46.5	2,224
70	50.5	2,672
95	55.0	3,230
120	58.5	3,671
150	61.5	4,122
185	66.0	4,738
240	71.0	5,661
300	76.0	6,586

#### Application :

Indoors, cable trunking, outdoors and in ground;  
For power stations, industry and switchgear.

#### Special Features on Request

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



#### Note :

##### Conductor Shape

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

##### Standard Packing

25 - 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. (mm <sup>2</sup> )	Conductor		Inductance (mH/km)	Current - Carrying Capacity at 30° C *		Short circuit current at 1 sec	
	DC Resistance at 20°C	AC Resistance at 90°C		in air	in ground	Conductor	Screen
	Max. (Ω/km)	Max. (Ω/km)		Max. (A)	Max. (A)	Max. (kA)	Max. (kA)
25	1.20	1.539	0.372	117	112	2.35	1.03
35	0.868	1.113	0.350	142	134	3.29	1.03
50	0.641	0.822	0.336	169	158	4.70	1.03
70	0.443	0.568	0.316	211	194	6.58	1.03
95	0.320	0.411	0.303	255	230	8.93	1.03
120	0.253	0.325	0.293	294	262	11.28	1.03
150	0.206	0.265	0.285	332	293	14.10	1.03
185	0.164	0.211	0.277	381	332	17.39	1.37
240	0.125	0.162	0.268	447	384	22.56	1.37
300	0.100	0.130	0.261	510	433	28.20	1.37

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

# NA2XSEY 3 x (25-300) mm<sup>2</sup> 8.7/15 kV AI / XLPE / CTS / PVC

(Aluminium Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed)  
Standard Specification : SNI IEC 60502-2 : 2009

## Construction Data

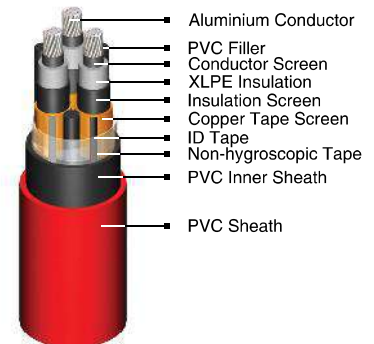
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
25	46.5	2,097
35	49.5	2,384
50	52.0	2,673
70	56.5	3,207
95	60.0	3,719
120	63.5	4,194
150	66.5	4,662
185	71.5	5,384
240	76.5	6,321
300	81.5	7,277

### Application :

Indoors, cable trunking, outdoors and in ground;  
For power stations, industry and switchgear.

### Special Features on Request

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



### Note :

#### Conductor Shape

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

#### Standard Packing

25 - 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	
	DC Resistance at 20°C	AC Resistance at 90°C		in air	in ground	Conductor	Screen
	Max. (Ω/km)	Max. (Ω/km)		Max. (A)	Max. (A)	Max. (kA)	Max. (kA)
25	1.20	1.539	0.400	119	112	2.35	1.03
35	0.868	1.113	0.376	144	134	3.29	1.03
50	0.641	0.822	0.361	171	158	4.70	1.03
70	0.443	0.568	0.338	213	193	6.58	1.03
95	0.320	0.411	0.323	258	231	8.93	1.03
120	0.253	0.325	0.312	297	262	11.28	1.03
150	0.206	0.265	0.304	335	293	14.10	1.37
185	0.164	0.211	0.294	383	332	17.39	1.37
240	0.125	0.162	0.284	449	384	22.56	1.37
300	0.100	0.130	0.276	512	432	28.20	1.37

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

# NA2XSEY 3 x (35-300) mm<sup>2</sup> 12/20 kV

## AI / XLPE / CTS / PVC

(Aluminium Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed)

Standard Specification : SNI IEC 60502-2 : 2009

### Construction Data

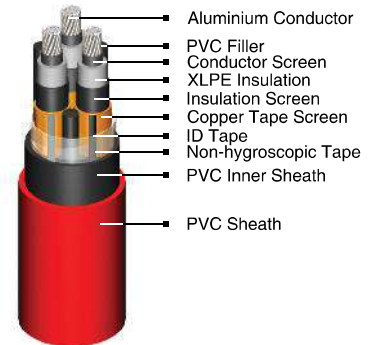
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
35	54.5	2,842
50	57.0	3,144
70	61.0	3,661
95	65.0	4,238
120	68.5	4,739
150	72.0	5,296
185	76.5	5,980
240	81.5	6,956
300	86.0	7,922

#### Application :

Indoors, cable trunking, outdoors and in ground;  
For power stations, industry and switchgear.

#### Special Features on Request

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



#### Note :

##### Conductor Shape

35 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

##### Standard Packing

35 - 300 sqmm will be supplied in wooden drum on available length  
Length Tolerance per drum  $\pm 2\%$

### 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	
	DC Resistance at 20°C	AC Resistance at 90°C		in air	in ground	Conductor	Screen
	Max. (Ω/km)	Max. (Ω/km)		Max. (A)	Max. (A)	Max. (kA)	Max. (kA)
35	0.868	1.113	0.397	145	134	3.29	1.03
50	0.641	0.822	0.380	173	158	4.70	1.03
70	0.443	0.568	0.357	215	193	6.58	1.03
95	0.320	0.411	0.340	260	230	8.93	1.37
120	0.253	0.325	0.328	298	262	11.28	1.37
150	0.206	0.265	0.319	336	292	14.10	1.37
185	0.164	0.211	0.308	385	332	17.39	1.37
240	0.125	0.162	0.297	451	384	22.56	1.37
300	0.100	0.130	0.289	514	432	28.20	1.37

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

# NA2XSEY 3 x (50-300) mm<sup>2</sup> 18/30 kV AI / XLPE / CTS / PVC

(Aluminium Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed)  
Standard Specification : SNI IEC 60502-2 : 2009

## Construction Data

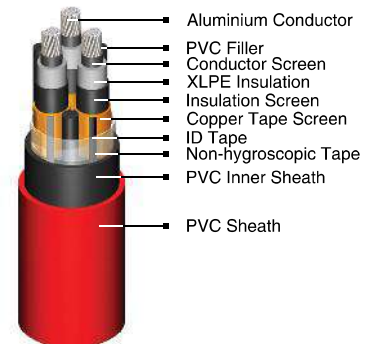
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
50	69.0	4,407
70	73.5	5,071
95	77.5	5,693
120	81.0	6,296
150	84.0	6,848
185	88.5	7,611
240	93.0	8,641
300	98.5	9,826

### Application :

Indoors, cable trunking, outdoors and in ground;  
For power stations, industry and switchgear.

### Special Features on Request

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



### Note :

#### Conductor Shape

50 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

#### Standard Packing

50 - 300 sqmm will be supplied in wooden drum on available length  
Length Tolerance per drum  $\pm 2\%$

## 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	
	DC Resistance at 20°C	AC Resistance at 90°C		in air	in ground	Conductor	Screen
	Max. ( $\Omega$ /km)	Max. ( $\Omega$ /km)		Max. (A)	Max. (A)	Max. (kA)	Max. (kA)
50	0.641	0.822	0.423	175	157	4.70	1.37
70	0.443	0.568	0.396	217	192	6.58	1.37
95	0.320	0.411	0.377	263	230	8.93	1.37
120	0.253	0.325	0.364	301	261	11.28	1.37
150	0.206	0.265	0.353	339	292	14.10	1.37
185	0.164	0.211	0.340	388	331	17.39	1.37
240	0.125	0.161	0.327	454	384	22.56	1.37
300	0.100	0.130	0.317	515	431	28.20	1.37

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

# NA2XSEBY 3 x (25-300) mm<sup>2</sup> 3.6/6 kV

## AI / XLPE / CTS / PVC / STA / PVC

(Aluminium Conductor, XLPE Insulated, Copper Tape Screen, Galvanized Steel Tape Armor, PVC Sheathed)  
 Standard Specification : SNI IEC 60502-2 : 2009

### Construction Data

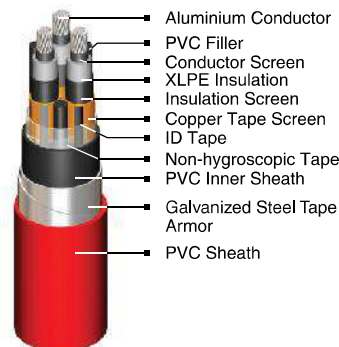
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
25	38.0	1,922
35	41.0	2,206
50	43.5	2,517
70	48.0	3,016
95	52.0	3,534
120	55.5	4,062
150	59.0	4,531
185	63.0	5,191
240	68.5	6,180
300	75.0	7,327

#### Application :

For installation indoor, in ground direct buried, for power station and switchgear, if there is a risk that low mechanical damage may occur.

#### Special Features on Request

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



#### Note :

##### Conductor Shape

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

##### Standard Packing

25 - 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.	Conductor		Inductance	Current - Carrying Capacity at 30° C *		Short circuit current at 1 sec	
	DC Resistance at 20°C	AC Resistance at 90°C		in air	in ground	Conductor	Screen
	Max. (Ω/km)	Max. (Ω/km)		Max. (A)	Max. (A)	Max. (kA)	Max. (kA)
(mm <sup>2</sup> )			(mH/km)				
25	1.20	1.539	0.346	117	113	2.35	1.03
35	0.868	1.113	0.326	142	136	3.29	1.03
50	0.641	0.822	0.314	170	159	4.70	1.03
70	0.443	0.568	0.296	212	195	6.58	1.03
95	0.320	0.411	0.284	257	233	8.93	1.03
120	0.253	0.325	0.276	295	264	11.28	1.03
150	0.206	0.265	0.269	334	295	14.10	1.03
185	0.164	0.212	0.262	384	334	17.39	1.03
240	0.125	0.162	0.256	450	386	22.56	1.37
300	0.100	0.130	0.253	512	433	28.20	1.37

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

# NA2XSEBY 3 x (25-300) mm<sup>2</sup> 6/10 kV

AI / XLPE / CTS / PVC / STA / PVC

(Aluminium Conductor, XLPE Insulated, Copper Tape Screen, Galvanized Steel Tape Armor, PVC Sheathed)

Standard Specification : SNI IEC 60502-2 : 2009

## Construction Data

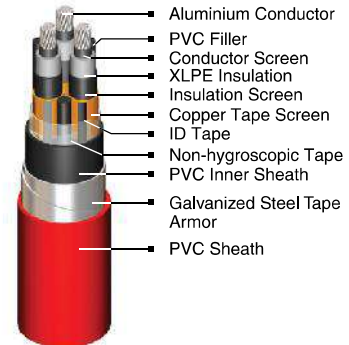
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
25	42.5	2,270
35	45.5	2,619
50	48.0	2,918
70	52.5	3,431
95	56.5	4,030
120	60.0	4,520
150	63.0	5,018
185	67.5	5,697
240	73.0	6,733
300	77.5	7,697

### Application :

For installation indoor, in ground direct burried, for power station and switchgear, if there is a risk that low mechanical damage may occur.

### Special Features on Request

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



### Note :

#### Conductor Shape

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

#### Standard Packing

25 - 50 sqmm supplied in wooden drum @ 1000 m

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

Length Tolerance per drum  $\pm 2\%$

## 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	
	DC Resistance at 20°C	AC Resistance at 90°C		in air	in ground	Conductor	Screen
	Max. (Ω/km)	Max. (Ω/km)		Max. (A)	Max. (A)	Max. (kA)	Max. (kA)
25	1.20	1.539	0.372	119	113	2.35	1.03
35	0.868	1.113	0.350	144	135	3.29	1.03
50	0.641	0.822	0.336	172	159	4.70	1.03
70	0.443	0.568	0.316	214	195	6.58	1.03
95	0.320	0.411	0.303	259	232	8.93	1.03
120	0.253	0.325	0.293	298	264	11.28	1.03
150	0.206	0.265	0.285	336	295	14.10	1.03
185	0.164	0.211	0.277	386	334	17.39	1.37
240	0.125	0.162	0.268	451	385	22.56	1.37
300	0.100	0.130	0.261	514	433	28.20	1.37

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



# NA2XSEBY 3 x (25-300) mm<sup>2</sup> 8.7/15 kV

## AI / XLPE / CTS / PVC / STA / PVC

(Aluminium Conductor, XLPE Insulated, Copper Tape Screen, Galvanized Steel Tape Armor, PVC Sheathed)  
Standard Specification : SNI IEC 60502-2 : 2009

### Construction Data

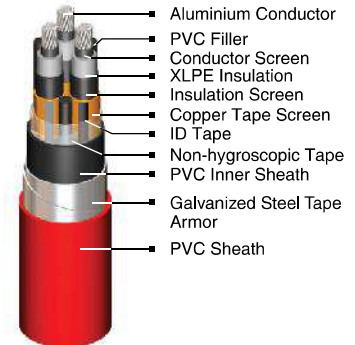
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
25	48.0	2,792
35	51.0	3,122
50	53.5	3,448
70	58.0	4,054
95	62.0	4,624
120	65.0	5,151
150	68.5	5,666
185	73.0	6,460
240	78.0	7,474
300	84.0	9,262

#### Application :

For installation indoor, in ground direct buried, for power station and switchgear, if there is a risk that low mechanical damage may occur.

#### Special Features on Request

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



#### Note :

##### Conductor Shape

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

##### Standard Packing

25 sqmm supplied in wooden drum @ 1000 m

35 - 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 at 30° C *		Short circuit current at 1 sec	
	DC Resistance at 20°C	AC Resistance at 90°C		in air	in ground	Conductor	Screen
	Max. (Ω/km)	Max. (Ω/km)		Max. (A)	Max. (A)	Max. (kA)	Max. (kA)
(mm <sup>2</sup> )			(mH/km)				
25	1.20	1.539	0.400	121	113	2.35	1.03
35	0.868	1.113	0.376	146	135	3.29	1.03
50	0.641	0.822	0.361	174	159	4.70	1.03
70	0.443	0.568	0.338	216	194	6.58	1.03
95	0.320	0.411	0.323	261	232	8.93	1.03
120	0.253	0.325	0.312	300	264	11.28	1.03
150	0.206	0.265	0.304	338	294	14.10	1.37
185	0.164	0.211	0.294	387	333	17.39	1.37
240	0.125	0.162	0.284	452	384	22.56	1.37
300	0.100	0.130	0.276	515	431	28.20	1.37

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

# NA2XSEBY 3 x (35-300) mm<sup>2</sup> 12/20 kV

AI / XLPE / CTS / PVC / STA / PVC

(Aluminium Conductor, XLPE Insulated, Copper Tape Screen, Galvanized Steel Tape Armor, PVC Sheathed)

Standard Specification : SNI IEC 60502-2 : 2009

## Construction Data

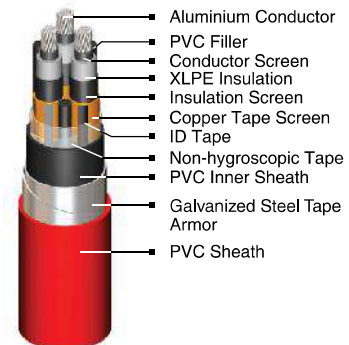
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
35	56.0	3,659
50	58.5	3,998
70	63.0	4,581
95	66.5	5,186
120	70.0	5,737
150	73.5	6,346
185	77.5	7,094
240	84.0	8,941
300	89.0	10,064

### Application :

For installation indoor, in ground direct burried, for power station and switchgear, if there is a risk that low mechanical damage may occur.

### Special Features on Request

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



### Note :

#### Conductor Shape

35 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

#### Standard Packing

35 - 300 sqmm will be supplied in wooden drum on available length  
Length Tolerance per drum  $\pm 2\%$

## 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	
	DC Resistance at 20°C	AC Resistance at 90°C		in air	in ground	Conductor	Screen
	Max. (Ω/km)	Max. (Ω/km)		Max. (A)	Max. (A)	Max. (kA)	Max. (kA)
35	0.868	1.113	0.397	147	135	3.29	1.03
50	0.641	0.822	0.380	175	159	4.70	1.03
70	0.443	0.568	0.357	218	194	6.58	1.03
95	0.320	0.411	0.340	263	232	8.93	1.37
120	0.253	0.325	0.328	302	263	11.28	1.37
150	0.206	0.265	0.319	339	294	14.10	1.37
185	0.164	0.211	0.308	389	333	17.39	1.37
240	0.125	0.162	0.297	454	383	22.56	1.37
300	0.100	0.130	0.289	516	430	28.20	1.37

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

# NA2XSEBY 3 x (50-300) mm<sup>2</sup> 18/30 kV

## AI / XLPE / CTS / PVC / STA / PVC

(Aluminium Conductor, XLPE Insulated, Copper Tape Screen, Galvanized Steel Tape Armor, PVC Sheathed)  
 Standard Specification : SNI IEC 60502-2 : 2009

### Construction Data

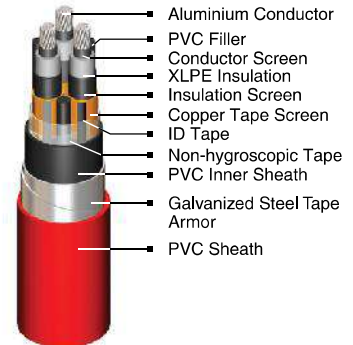
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
50	70,5	5,444
70	75,0	6,180
95	79,0	6,860
120	83,5	8,269
150	87,0	8,898
185	91,0	9,807
240	96,0	10,961
300	101,5	12,278

#### Application :

For installation indoor, in ground direct buried, for power station and switchgear, if there is a risk that low mechanical damage may occur.

#### Special Features on Request

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



#### Note :

##### Conductor Shape

50 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

##### Standard Packing

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	
	DC Resistance at 20°C	AC Resistance at 90°C		in air	in ground	Conductor	Screen
	Max. (Ω/km)	Max. (Ω/km)		Max. (A)	Max. (A)	Max. (kA)	Max. (kA)
50	0.641	0.822	0.423	177	158	4.70	1.37
70	0.443	0.568	0.396	219	193	6.58	1.37
95	0.320	0.411	0.377	265	231	8.93	1.37
120	0.253	0.325	0.364	304	262	11.28	1.37
150	0.206	0.265	0.353	342	293	14.10	1.37
185	0.164	0.211	0.340	391	331	17.39	1.37
240	0.125	0.161	0.327	456	382	22.56	1.37
300	0.100	0.130	0.317	515	428	28.20	1.37

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

# NA2XSEFGbY 3 x (25-300) mm<sup>2</sup> 3.6/6 kV

## AI / XLPE / CTS / PVC / SFWA / PVC

(Aluminium Conductor, XLPE Insulated, Copper Tape Screen, Galvanized Steel Flat Wire Armor, PVC Sheathed)  
Standard Specification : SNI IEC 60502-2 : 2009

### Construction Data

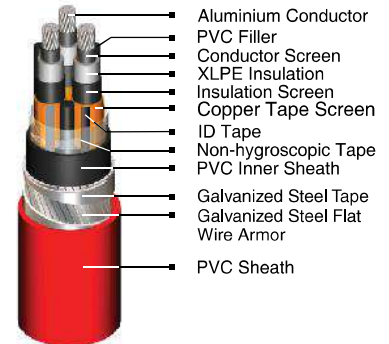
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
25	38.5	2,114
35	41.0	2,418
50	44.0	2,770
70	48.5	3,280
95	52.0	3,807
120	56.0	4,346
150	59.0	4,832
185	63.0	5,546
240	69.0	6,580
300	75.0	7,766

#### Application :

For installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

#### Special Features on Request

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



#### Note :

##### Conductor Shape

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

##### Standard Packing

25 - 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.	Conductor		Inductance	Current - Carrying Capacity at 30° C *		Short circuit current at 1 sec	
	DC Resistance at 20°C	AC Resistance at 90°C		in air	in ground	Conductor	Screen
	Max. (Ω/km)	Max. (Ω/km)		Max. (A)	Max. (A)	Max. (kA)	Max. (kA)
(mm <sup>2</sup> )			(mH/km)				
25	1.20	1.539	0.346	117	113	2.35	1.03
35	0.868	1.113	0.326	143	136	3.29	1.03
50	0.641	0.822	0.314	170	159	4.70	1.03
70	0.443	0.568	0.296	212	195	6.58	1.03
95	0.320	0.411	0.284	257	233	8.93	1.03
120	0.253	0.325	0.276	295	264	11.28	1.03
150	0.206	0.265	0.269	334	295	14.10	1.03
185	0.164	0.212	0.262	383	334	17.39	1.03
240	0.125	0.162	0.256	450	385	22.56	1.37
300	0.100	0.130	0.253	511	432	28.20	1.37

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

# NA2XSEFGbY 3 x (25-300) mm<sup>2</sup> 6/10 kV

## AI / XLPE / CTS / PVC / SFWA / PVC

(Aluminium Conductor, XLPE Insulated, Copper Tape Screen, Galvanized Steel Flat Wire Armor, PVC Sheathed)  
Standard Specification : SNI IEC 60502-2 : 2009

### Construction Data

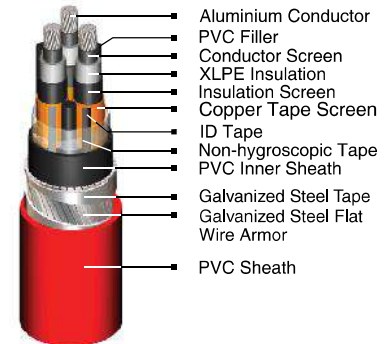
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
25	42.5	2,492
35	46.0	2,857
50	48.5	3,182
70	52.5	3,700
95	57.0	4,329
120	60.0	4,856
150	63.0	5,372
185	67.5	6,084
240	73.0	7,140
300	78.0	8,166

#### Application :

For installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

#### Special Features on Request

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



#### Note :

##### Conductor Shape

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

##### Standard Packing

25 - 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. (mm <sup>2</sup> )	Conductor		Inductance (mH/km)	Current - Carrying Capacity at 30° C *		Short circuit current at 1 sec	
	DC Resistance at 20°C	AC Resistance at 90°C		in air	in ground	Conductor	Screen
	Max. (Ω/km)	Max. (Ω/km)		Max. (A)	Max. (A)	Max. (kA)	Max. (kA)
25	1.20	1.539	0.372	119	113	2.35	1.03
35	0.868	1.113	0.350	144	135	3.29	1.03
50	0.641	0.822	0.336	172	159	4.70	1.03
70	0.443	0.568	0.316	214	195	6.58	1.03
95	0.320	0.411	0.303	259	232	8.93	1.03
120	0.253	0.325	0.293	298	264	11.28	1.03
150	0.206	0.265	0.285	336	295	14.10	1.03
185	0.164	0.211	0.277	386	334	17.39	1.37
240	0.125	0.162	0.268	450	384	22.56	1.37
300	0.100	0.130	0.261	512	431	28.20	1.37

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

# NA2XSEFGbY 3 x (25-300) mm<sup>2</sup> 8.7/15 kV

## AI / XLPE / CTS / PVC / SFWA / PVC

(Aluminium Conductor, XLPE Insulated, Copper Tape Screen, Galvanized Steel Flat Wire Armor, PVC Sheathed)

Standard Specification : SNI IEC 60502-2 : 2009

### Construction Data

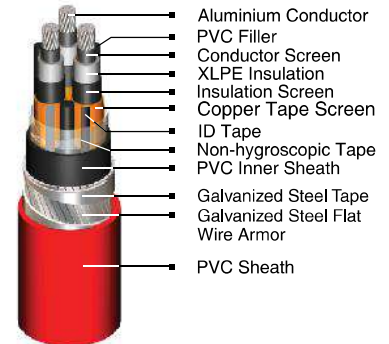
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
25	48.5	3,056
35	51.0	3,380
50	53.5	3,732
70	58.5	4,364
95	62.0	4,966
120	65.5	5,535
150	68.5	6,042
185	73.0	6,891
240	78.5	7,929
300	83.0	8,947

#### Application :

For installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

#### Special Features on Request

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



#### Note :

##### Conductor Shape

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

##### Standard Packing

25 sqmm supplied in wooden drum @ 1000 m

35 - 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 at 30° C *		Short circuit current at 1 sec	
	DC Resistance at 20°C	AC Resistance at 90°C		in air	in ground	Conductor	Screen
	Max. (Ω/km)	Max. (Ω/km)		Max. (A)	Max. (A)	Max. (kA)	Max. (kA)
(mm <sup>2</sup> )			(mH/km)				
25	1.20	1.539	0.400	121	113	2.35	1.03
35	0.868	1.113	0.376	146	135	3.29	1.03
50	0.641	0.822	0.361	174	159	4.70	1.03
70	0.443	0.568	0.338	216	194	6.58	1.03
95	0.320	0.411	0.323	261	232	8.93	1.03
120	0.253	0.325	0.312	300	263	11.28	1.03
150	0.206	0.265	0.304	338	294	14.10	1.37
185	0.164	0.211	0.294	386	332	17.39	1.37
240	0.125	0.162	0.284	452	383	22.56	1.37
300	0.100	0.130	0.276	514	431	28.20	1.37

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

# NA2XSEFGbY 3 x (35-300) mm<sup>2</sup> 12/20 kV

AI / XLPE / CTS / PVC / SFWA / PVC

(Aluminium Conductor, XLPE Insulated, Copper Tape Screen, Galvanized Steel Flat Wire Armor, PVC Sheathed)  
Standard Specification : SNI IEC 60502-2 : 2009

## Construction Data

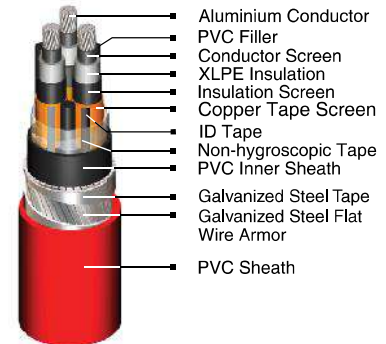
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
35	56.5	3,964
50	59.0	4,302
70	63.0	4,938
95	67.0	5,555
120	70.0	6,148
150	73.5	6,771
185	78.0	7,587
240	83.0	8,627
300	88.0	9,730

### Application :

For installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

### Special Features on Request

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



### Note :

#### Conductor Shape

35 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

#### Standard Packing

35 - 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	
	DC Resistance at 20°C	AC Resistance at 90°C		in air	in ground	Conductor	Screen
	Max. (Ω/km)	Max. (Ω/km)		Max. (A)	Max. (A)	Max. (kA)	Max. (kA)
35	0.868	1.113	0.397	147	135	3.29	1.03
50	0.641	0.822	0.380	175	159	4.70	1.03
70	0.443	0.568	0.357	218	194	6.58	1.03
95	0.320	0.411	0.340	263	232	8.93	1.37
120	0.253	0.325	0.328	302	263	11.28	1.37
150	0.206	0.265	0.319	339	293	14.10	1.37
185	0.164	0.211	0.308	388	332	17.39	1.37
240	0.125	0.162	0.297	453	383	22.56	1.37
300	0.100	0.130	0.289	515	430	28.20	1.37

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

# NA2XSEFGbY 3 x (50-300) mm<sup>2</sup> 18/30 kV

## AI / XLPE / CTS / PVC / SFWA / PVC

(Aluminium Conductor, XLPE Insulated, Copper Tape Screen, Galvanized Steel Flat Wire Armor, PVC Sheathed)  
 Standard Specification : SNI IEC 60502-2 : 2009

### Construction Data

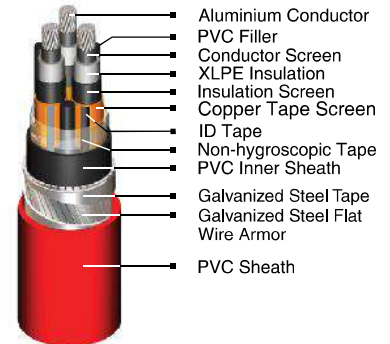
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
50	71.0	5,850
70	75.5	6,613
95	79.0	7,305
120	82.5	7,939
150	85.5	8,556
185	90.0	9,414
240	95.0	10,586
300	100.0	11,854

#### Application :

For installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

#### Special Features on Request

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



#### Note :

##### Conductor Shape

50 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

##### Standard Packing

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	
	DC Resistance at 20°C	AC Resistance at 90°C		in air	in ground	Conductor	Screen
	Max. (Ω/km)	Max. (Ω/km)		Max. (A)	Max. (A)	Max. (kA)	Max. (kA)
50	0.641	0.822	0.423	177	158	4.70	1.37
70	0.443	0.568	0.396	219	193	6.58	1.37
95	0.320	0.411	0.377	265	231	8.93	1.37
120	0.253	0.325	0.364	303	262	11.28	1.37
150	0.206	0.265	0.353	341	293	14.10	1.37
185	0.164	0.211	0.340	390	331	17.39	1.37
240	0.125	0.161	0.327	455	382	22.56	1.37
300	0.100	0.130	0.317	516	429	28.20	1.37

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



# FIRE RESISTANT CABLES

## N2XY 1 x (1.5-800) mm<sup>2</sup> 0.6/1 kV

### Cu / Mica / XLPE / PVC

(Copper Conductor, Mica Tape, XLPE Insulated, PVC Sheathed)  
Standard Specification : SNI IEC 60502-1 : 2009 and IEC 60331

#### Construction Data

Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
1.5	6.8	58
2.5	7.2	72
4	7.8	92
6	8.4	115
10	9.4	162
16	10.4	222
25	12.2	332
35	13.3	427
50	15.0	576
70	16.9	782
95	18.9	1,030
120	21.0	1,274
150	23.0	1,550
185	25.5	1,951
240	29.0	2,543
300	31.5	3,080
400	35.0	3,935
500	39.5	5,025
630	44.0	6,526
800	49.0	8,181

#### Application :

For wiring of fire resistant safety circuits, such as fire alarm system, emergency lighting and power, public address and emergency voice communication systems in highrise building, control and instrumentation services in industrial, commercial and residential complexes.

#### Special Features on Request

- Tinned Coated Copper Conductor
- 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

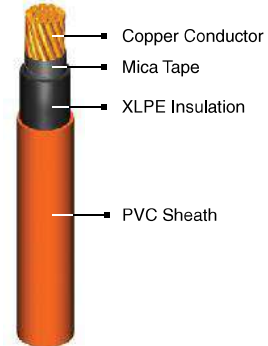
1.5 - 10 sqmm supplied in solid (re) or non compacted circular stranded (rm) conductor shape  
16 sqmm supplied in non compacted circular stranded (rm) conductor shape  
25 - 800 sqmm supplied in non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape

##### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

##### Standard Packing

1.5 - 10 sqmm supplied in coil @ 100 m  
16 - 400 sqmm supplied in wooden drum @ 1000 m  
500 - 800 sqmm supplied in wooden drum on available length  
Length Tolerance per drum ± 2%



#### Electrical Data

Nom. Cross Sect.	Conductor		Inductance		Current - Carrying Capacity at 30° C *				Short circuit current at 1 sec
	DC Resistance at 20°C	AC Resistance at 90°C	Trefoil formation	Flat formation	⊗⊗		⊙⊙⊙		
					in air	in ground	in air	in ground	
(mm <sup>2</sup> )	Max. (Ω/km)	Max. (Ω/km)	(mH/km)	(mH/km)	Max. (A)	Max. (A)	Max. (A)	Max. (A)	Max. (kA)
1.5	12.1	15.429	0.478	0.524	25	33	26	33	0.21
2.5	7.41	9.449	0.441	0.487	34	43	35	43	0.36
4	4.61	5.878	0.409	0.455	45	56	46	55	0.57
6	3.08	3.927	0.387	0.433	57	69	58	68	0.86
10	1.83	2.333	0.356	0.402	78	92	80	91	1.43
16	1.15	1.466	0.333	0.379	104	118	107	117	2.29
25	0.727	0.927	0.317	0.363	141	152	145	151	3.58
35	0.524	0.668	0.303	0.349	173	182	178	180	5.01
50	0.387	0.494	0.290	0.336	213	216	220	214	7.15
70	0.268	0.342	0.280	0.326	271	265	279	261	10.01
95	0.193	0.247	0.272	0.318	335	316	346	312	13.59
120	0.153	0.196	0.268	0.314	392	359	404	355	17.16
150	0.124	0.160	0.267	0.313	451	403	466	397	21.45
185	0.0991	0.128	0.265	0.311	526	455	543	449	26.46
240	0.0754	0.099	0.260	0.306	630	527	650	519	34.32
300	0.0601	0.080	0.255	0.301	728	593	751	584	42.90
400	0.0470	0.064	0.254	0.300	848	671	875	660	57.20
500	0.0366	0.052	0.251	0.297	985	757	1018	744	71.50
630	0.0283	0.043	0.247	0.293	1141	849	1179	834	90.09
800	0.0221	0.036	0.244	0.291	1295	937	1339	921	114.40

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

# FIRE RESISTANT CABLES

## N2XY 2 x (1.5-300) mm<sup>2</sup> 0.6/1 kV

Cu / Mica / XLPE / PVC

(Copper Conductor, Mica Tape, XLPE Insulated, PVC Sheathed)

Standard Specification : SNI IEC 60502-1 : 2009 and IEC 60331

### Construction Data

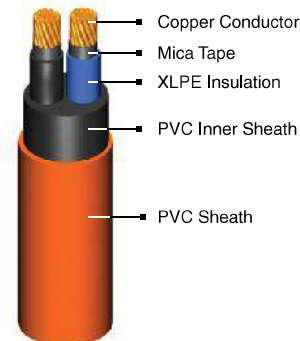
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
1.5	14.5	255
2.5	15.5	301
4	16.6	363
6	18.0	441
10	19.9	582
16	22.0	758
25	25.0	1,050
35	27.5	1,324
50	30.0	1,626
70	34.5	2,248
95	38.0	2,873
120	41.5	3,486
150	46.5	4,337
185	51.0	5,256
240	56.5	6,644
300	62.5	8,207

#### Application :

For wiring of fire resistant safety circuits, such as fire alarm system, emergency lighting and power, public address and emergency voice communication systems in highrise building, control and instrumentation services in industrial, commercial and residential complexes.

#### Special Features on Request

- Tinned Coated Copper Conductor
- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- 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

##### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

##### Standard Packing

1.5 - 120 sqmm supplied in wooden drum @ 1000 m

150 - 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 at 30°C *		Short circuit current at 1 sec
	DC Resistance at 20°C	AC Resistance at 90°C		in air	in ground	
	Max. (Ω/km)	Max. (Ω/km)				
(mm <sup>2</sup> )			(mH/km)			Max. (kA)
1.5	12.1	15.429	0.315	29	34	0.21
2.5	7.41	9.449	0.293	38	44	0.36
4	4.61	5.878	0.275	50	58	0.57
6	3.08	3.927	0.263	64	73	0.86
10	1.83	2.334	0.248	88	98	1.43
16	1.15	1.466	0.238	116	128	2.29
25	0.727	0.927	0.240	154	165	3.58
35	0.524	0.668	0.233	190	199	5.01
50	0.387	0.494	0.232	230	236	7.15
70	0.268	0.342	0.229	292	292	10.01
95	0.193	0.247	0.224	356	348	13.59
120	0.153	0.196	0.223	414	397	17.16
150	0.124	0.160	0.224	474	445	21.45
185	0.0991	0.128	0.225	544	502	26.46
240	0.0754	0.099	0.223	644	582	34.32
300	0.0601	0.080	0.221	737	654	42.90

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

# FIRE RESISTANT CABLES

## N2XY 3 x (1.5-300) mm<sup>2</sup> 0.6/1 kV

### Cu / Mica / XLPE / PVC

(Copper Conductor, Mica Tape, XLPE Insulated, PVC Sheathed)  
Standard Specification : SNI IEC 60502-1 : 2009 and IEC 60331

#### Construction Data

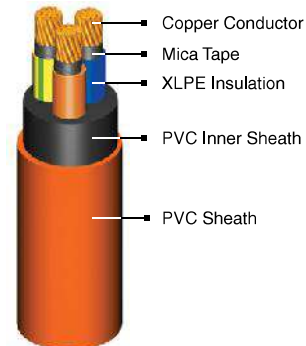
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
1.5	15.2	282
2.5	16.2	338
4	17.4	415
6	18.9	511
10	21.0	689
16	23.5	915
25	26.5	1,289
35	29.0	1,646
50	32.0	2,039
70	37.0	2,828
95	40.5	3,682
120	44.5	4,496
150	50.0	5,575
185	54.5	6,814
240	61.0	8,794
300	66.5	10,755

#### Application :

For wiring of fire resistant safety circuits, such as fire alarm system, emergency lighting and power, public address and emergency voice communication systems in highrise building, control and instrumentation services in industrial, commercial and residential complexes.

#### Special Features on Request

- Tinned Coated Copper Conductor
- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- 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

##### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

##### Standard Packing

1.5 - 95 sqmm supplied in wooden drum @ 1000 m  
120 - 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 at 30°C *		Short circuit current at 1 sec
	DC Resistance at 20°C	AC Resistance at 90°C		in air	in ground	
	Max. (Ω/km)	Max. (Ω/km)		Max. (A)	Max. (A)	
(mm <sup>2</sup> )			(mH/km)			Max. (kA)
1.5	12.1	15.429	0.315	21	28	0.21
2.5	7.41	9.449	0.293	32	37	0.36
4	4.61	5.878	0.275	43	49	0.57
6	3.08	3.927	0.263	54	61	0.86
10	1.83	2.334	0.248	74	83	1.43
16	1.15	1.467	0.238	99	107	2.29
25	0.727	0.927	0.240	131	139	3.58
35	0.524	0.669	0.233	162	167	5.01
50	0.387	0.494	0.232	200	203	7.15
70	0.268	0.343	0.229	252	248	10.01
95	0.193	0.247	0.224	309	298	13.59
120	0.153	0.197	0.223	359	339	17.16
150	0.124	0.160	0.224	411	379	21.45
185	0.0991	0.129	0.225	475	430	26.46
240	0.0754	0.099	0.223	562	497	34.32
300	0.0601	0.081	0.221	645	560	42.90

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

# FIRE RESISTANT CABLES

## N2XY 4 x (1.5-300) mm<sup>2</sup> 0.6/1 kV

Cu / Mica / XLPE / PVC

(Copper Conductor, Mica Tape, XLPE Insulated, PVC Sheathed)

Standard Specification : SNI IEC 60502-1 : 2009 and IEC 60331

### Construction Data

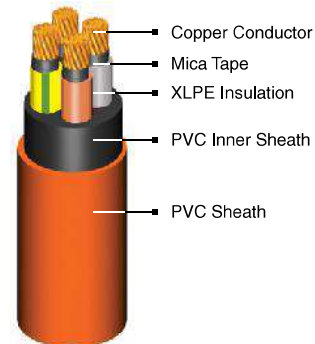
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
1.5	16.3	323
2.5	17.5	392
4	18.8	488
6	20.5	606
10	23.0	839
16	25.5	1,125
25	29.0	1,602
35	32.0	2,073
50	36.0	2,628
70	41.0	3,586
95	44.5	4,700
120	50.0	5,848
150	55.5	7,148
185	61.0	8,849
240	67.5	11,313
300	74.0	13,867

#### Application :

For wiring of fire resistant safety circuits, such as fire alarm system, emergency lighting and power, public address and emergency voice communication systems in highrise building, control and instrumentation services in industrial, commercial and residential complexes.

#### Special Features on Request

- Tinned Coated Copper Conductor
- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- 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

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

##### Tinned Coated Copper Conductor

Electrical properties for tinned coated copper conductor will be submitted upon request

##### 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.	Conductor		Inductance	Current - Carrying Capacity at 30°C *		Short circuit current at 1 sec
	DC Resistance at 20°C	AC Resistance at 90°C		Capacity		
	Max. (Ω/km)	Max. (Ω/km)		in air	in ground	
(mm <sup>2</sup> )			(mH/km)	Max. (A)	Max. (A)	Max. (kA)
1.5	12.1	15.429	0.315	27	31	0.21
2.5	7.41	9.449	0.293	35	41	0.36
4	4.61	5.878	0.275	47	53	0.57
6	3.08	3.927	0.263	59	67	0.86
10	1.83	2.334	0.248	81	89	1.43
16	1.15	1.467	0.238	108	116	2.29
25	0.727	0.927	0.240	146	151	3.58
35	0.524	0.669	0.233	180	181	5.01
50	0.387	0.494	0.232	212	208	7.15
70	0.268	0.343	0.229	265	254	10.01
95	0.193	0.247	0.224	327	305	13.59
120	0.153	0.197	0.223	379	347	17.16
150	0.124	0.160	0.224	442	392	21.45
185	0.0991	0.129	0.225	504	441	26.46
240	0.0754	0.099	0.223	597	511	34.32
300	0.0601	0.081	0.221	685	576	42.90

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