

# NA2XS<sub>Y</sub> 1 x (10-800) mm<sup>2</sup> 0.6/1 kV

## AI / XLPE / CTS / PVC

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

Standard Specification : IEC 60502-1

### Construction Data

Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
10	11.1	160
16	12.3	199
25	13.9	255
35	15.1	305
50	16.8	380
70	18.9	475
95	21.0	571
120	22.5	658
150	25.0	805
185	27.0	954
240	30.0	1,188
300	32.5	1,404
400	38.5	1,961
500	41.5	2,268
630	45.5	2,791
800	50.5	3,436

#### 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

- 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 - 630 sqmm supplied in wooden drum @ 1000 m  
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 Max. (Ω/km)	AC Resistance at 90°C Max. (Ω/km)	Trefoil formation  (mH/km)	Flat formation  (mH/km)					
					in air	in ground	in air	in ground	
10	3.08	3.949	0.390	0.437	64	69	66	72	0.94
16	1.91	2.449	0.360	0.406	86	90	89	94	1.50
25	1.20	1.539	0.344	0.390	115	117	118	120	2.35
35	0.868	1.113	0.327	0.373	140	140	144	144	3.29
50	0.641	0.822	0.313	0.360	171	166	176	171	4.70
70	0.443	0.568	0.300	0.346	217	204	224	210	6.58
95	0.320	0.411	0.288	0.335	266	244	274	251	8.93
120	0.253	0.325	0.283	0.330	308	278	317	285	11.28
150	0.206	0.265	0.277	0.323	357	313	368	321	14.10
185	0.164	0.211	0.273	0.320	414	355	426	364	17.39
240	0.125	0.162	0.266	0.312	496	413	511	423	22.56
300	0.100	0.130	0.261	0.307	573	467	590	477	28.20
400	0.0778	0.102	0.258	0.304	687	537	706	549	37.60
500	0.0605	0.081	0.256	0.303	793	609	814	621	47.00
630	0.0469	0.064	0.253	0.299	923	691	947	704	59.22
800	0.0367	0.052	0.251	0.298	1060	775	1084	787	75.20

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

# NA2XSYP 2 x (10-300) mm<sup>2</sup> 0.6/1 kV

## AI / XLPE / CTS / PVC

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

Standard Specification : IEC 60502-1

### Construction Data

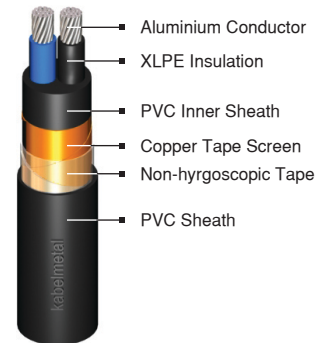
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
10	16.9	352
16	19.4	464
25	22.0	589
35	24.5	733
50	27.5	863
70	31.5	1,124
95	35.5	1,465
120	39.0	1,770
150	42.0	2,079
185	48.0	2,635
240	53.0	3,255
300	58.5	3,985

#### 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

- 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 - 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. (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 90°C Max. (Ω/km)		in air Max. (A)	in ground Max. (A)	
10	3.08	3.949	0.248	68	76	0.94
16	1.91	2.449	0.236	92	101	1.50
25	1.20	1.539	0.242	120	129	2.35
35	0.868	1.113	0.234	148	156	3.29
50	0.641	0.822	0.232	180	185	4.70
70	0.443	0.568	0.229	228	228	6.58
95	0.320	0.411	0.224	279	272	8.93
120	0.253	0.325	0.223	324	310	11.28
150	0.206	0.265	0.225	367	346	14.10
185	0.164	0.211	0.225	427	393	17.39
240	0.125	0.162	0.223	504	455	22.56
300	0.100	0.130	0.222	577	513	28.20

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

# NA2XSYP 3 x (10-300) mm<sup>2</sup> 0.6/1 kV

## AI / XLPE / CTS / PVC

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

Standard Specification : IEC 60502-1

### Construction Data

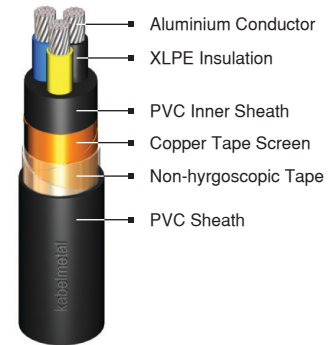
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
10	17.8	390
16	21.0	518
25	23.0	667
35	26.0	835
50	28.0	856
70	32.0	1,155
95	35.5	1,454
120	39.0	1,769
150	43.5	2,149
185	48.5	2,616
240	54.0	3,317
300	59.0	4,005

#### 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

- 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		Short circuit current of conductor at 1 sec
	DC Resistance at 20°C	AC Resistance at 90°C		at 30°C *		
				in air	in ground	
(mm <sup>2</sup> )	Max. (Ω/km)	Max. (Ω/km)	Max. (A)	Max. (A)	Max. (kA)	
10	3.08	3.949	0.248	58	64	0.94
16	1.91	2.449	0.236	78	85	1.50
25	1.20	1.539	0.242	102	108	2.35
35	0.868	1.113	0.234	126	131	3.29
50	0.641	0.822	0.232	156	159	4.70
70	0.443	0.568	0.229	197	194	6.58
95	0.320	0.411	0.224	242	233	8.93
120	0.253	0.325	0.223	281	265	11.28
150	0.206	0.265	0.225	321	296	14.10
185	0.164	0.211	0.225	373	337	17.39
240	0.125	0.162	0.223	442	390	22.56
300	0.100	0.130	0.222	509	440	28.20

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

# NA2XSYP 4 x (10-300) mm<sup>2</sup> 0.6/1 kV

## AI / XLPE / CTS / PVC

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

Standard Specification : IEC 60502-1

### Construction Data

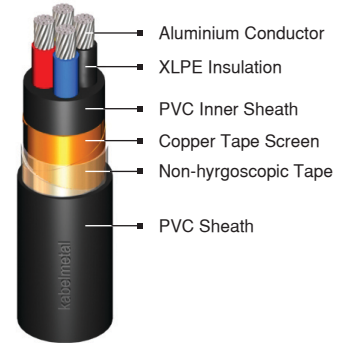
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
10	19.3	456
16	22.5	612
25	25.0	797
35	28.0	1,003
50	32.0	1,090
70	36.5	1,464
95	40.5	1,875
120	45.5	2,312
150	51.5	2,814
185	55.5	3,382
240	62.0	4,288
300	68.0	5,180

#### 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

- 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. (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 90°C Max. (Ω/km)		in air Max. (A)	in ground Max. (A)	
10	3.08	3.949	0.248	63	70	0.94
16	1.91	2.449	0.236	86	91	1.50
25	1.20	1.539	0.242	113	118	2.35
35	0.868	1.113	0.234	140	141	3.29
50	0.641	0.822	0.232	165	163	4.70
70	0.443	0.568	0.229	208	199	6.58
95	0.320	0.411	0.224	255	238	8.93
120	0.253	0.325	0.223	297	271	11.28
150	0.206	0.265	0.225	345	306	14.10
185	0.164	0.211	0.225	396	345	17.39
240	0.125	0.162	0.223	469	400	22.56
300	0.100	0.130	0.222	540	452	28.20

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

# NA2XS<sub>Y</sub> 5 x (10-50) mm<sup>2</sup> 0.6/1 kV

## AI / XLPE / CTS / PVC

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

### Construction Data

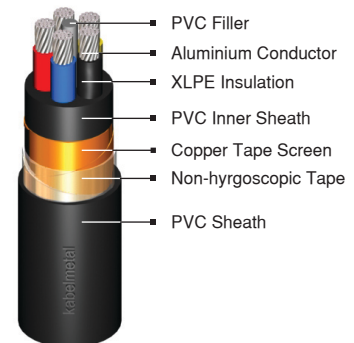
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm <sup>2</sup>	mm	kg/km
10	21.0	533
16	24.5	721
25	27.5	947
35	31.0	1,198
50	35.5	1,512

#### 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

- 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 of conductor at 1 sec Max. (kA)
	DC Resistance at 20°C Max. (Ω/km)	AC Resistance at 90°C Max. (Ω/km)		in air	in ground	
				Max. (A)	Max. (A)	
10	3.08	3.949	0.248	65	71	0.94
16	1.91	2.449	0.236	89	93	1.50
25	1.20	1.539	0.242	118	120	2.35
35	0.868	1.113	0.234	146	144	3.29
50	0.641	0.822	0.232	177	169	4.70

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