

N2XR(AL)Y 1 x (25-800) mm² 0.6/1 kV Cu / XLPE / AWA / PVC

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

Construction Data

Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm ²	mm	kg/km
25	16.6	503
35	17.7	612
50	19.5	783
70	21.5	1,014
95	23.5	1,280
120	26.0	1,575
150	27.5	1,872
185	30.0	2,294
240	33.0	2,923
300	36.0	3,509
400	40.5	4,534
500	45.0	5,691
630	49.5	7,267
800	56.5	9,271

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

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

Standard Packing

25 - 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 ²)	Conductor		Inductance		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)	Trefoil formation (mH/km)	Flat formation (mH/km)	⊗⊗⊗		⊙⊙⊙		
					in air (Max. (A))	in ground (Max. (A))	in air (Max. (A))	in ground (Max. (A))	
25	0.727	0.927	0.379	0.425	158	154	162	158	3.58
35	0.524	0.668	0.361	0.407	192	184	197	189	5.01
50	0.387	0.494	0.343	0.389	233	218	239	224	7.15
70	0.268	0.342	0.327	0.374	292	266	300	273	10.01
95	0.193	0.247	0.313	0.359	357	318	366	325	13.59
120	0.153	0.196	0.309	0.355	415	360	424	367	17.16
150	0.124	0.159	0.303	0.349	472	402	481	408	21.45
185	0.0991	0.128	0.296	0.342	542	452	552	457	26.46
240	0.0754	0.098	0.288	0.334	639	518	646	520	34.32
300	0.0601	0.079	0.282	0.328	727	576	732	576	42.90
400	0.0470	0.063	0.283	0.330	824	633	819	624	57.20
500	0.0366	0.051	0.277	0.324	934	699	920	682	71.50
630	0.0283	0.042	0.271	0.317	1049	763	1024	737	90.09
800	0.0221	0.035	0.273	0.319	1131	796	1091	759	114.40

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

N2XRY 2 x (1.5-300) mm² 0.6/1 kV

Cu / XLPE / SWA / PVC

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

Standard Specification : IEC 60502-1

Construction Data

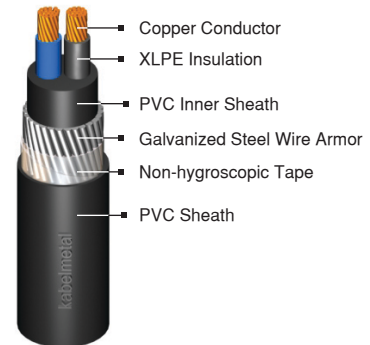
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm ²	mm	kg/km
1.5	13.6	325
2.5	14.5	379
4	15.7	448
6	16.8	530
10	19.4	783
16	22.0	982
25	25.5	1,447
35	28.0	1,765
50	30.5	2,106
70	35.0	2,765
95	39.5	3,746
120	43.5	4,465
150	47.5	5,303
185	54.0	6,890
240	59.5	8,463
300	65.0	10,151

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

- Fire Resistance
- 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

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

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

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

Standard Packing

1.5 - 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 (mH/km)	Current - Carrying Capacity at 30°C *		Short circuit current at 1 sec Max. (kA)
	DC Resistance at 20°C	AC Resistance at 90°C		in air	in ground	
(mm ²)						
1.5	12.1	15.429	0.315	30	35	0.21
2.5	7.41	9.449	0.293	40	46	0.36
4	4.61	5.878	0.275	53	60	0.57
6	3.08	3.927	0.263	67	75	0.86
10	1.83	2.334	0.248	92	101	1.43
16	1.15	1.467	0.238	122	131	2.29
25	0.727	0.927	0.240	162	169	3.58
35	0.524	0.669	0.233	199	204	5.01
50	0.387	0.494	0.232	240	241	7.15
70	0.268	0.342	0.229	302	295	10.01
95	0.193	0.247	0.224	369	353	13.59
120	0.153	0.196	0.223	427	400	17.16
150	0.124	0.160	0.224	486	447	21.45
185	0.0991	0.128	0.225	558	503	26.46
240	0.0754	0.099	0.223	655	579	34.32
300	0.0601	0.080	0.221	743	646	42.90

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

N2XRY 3 x (1.5-300) mm² 0.6/1 kV Cu / XLPE / SWA / PVC

(Copper Conductor, XLPE Insulated, Galvanized Steel Wire Armor, PVC Sheathed)
Standard Specification : IEC 60502-1

Construction Data

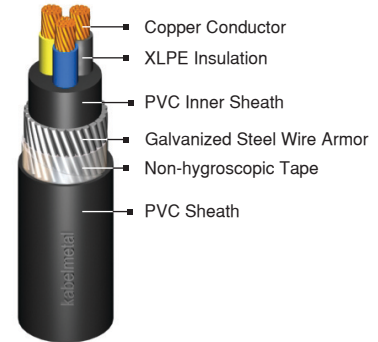
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm ²	mm	kg/km
1.5	14.1	351
2.5	15.1	415
4	16.3	503
6	17.5	603
10	20.5	903
16	23.0	1,161
25	27.0	1,709
35	29.5	2,127
50	31.5	2,424
70	36.5	3,438
95	40.0	4,343
120	43.5	5,172
150	49.5	6,675
185	54.0	7,977
240	60.0	9,995
300	65.0	11,990

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

- Fire Resistance
- 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

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

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

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

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

Standard Packing

1.5 - 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 ²)	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		in air	in ground	
1.5	12.1	15.429	0.315	25	29	0.21
2.5	7.41	9.449	0.293	34	39	0.36
4	4.61	5.878	0.275	44	50	0.57
6	3.08	3.927	0.263	56	63	0.86
10	1.83	2.334	0.248	78	85	1.43
16	1.15	1.467	0.238	103	110	2.29
25	0.727	0.927	0.240	138	142	3.58
35	0.524	0.669	0.233	169	171	5.01
50	0.387	0.494	0.232	209	207	7.15
70	0.268	0.342	0.229	264	253	10.01
95	0.193	0.247	0.224	322	302	13.59
120	0.153	0.196	0.223	372	343	17.16
150	0.124	0.160	0.224	427	383	21.45
185	0.0991	0.128	0.225	490	432	26.46
240	0.0754	0.099	0.223	574	496	34.32
300	0.0601	0.080	0.221	653	554	42.90

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

N2XRY 4 x (1.5-300) mm² 0.6/1 kV

Cu / XLPE / SWA / PVC

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

Standard Specification : IEC 60502-1

Construction Data

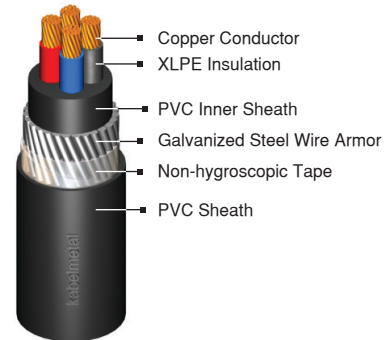
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm ²	mm	kg/km
1.5	14.9	395
2.5	16.0	470
4	17.4	575
6	19.5	798
10	22.0	1,058
16	25.5	1,518
25	29.0	2,055
35	32.0	2,585
50	35.5	3,040
70	41.0	4,305
95	45.0	5,476
120	51.5	7,064
150	57.5	8,536
185	61.5	10,189
240	68.0	12,772
300	73.5	15,380

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

- Fire Resistance
- 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

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

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

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

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

Standard Packing

1.5 - 50 sqmm supplied in wooden drum @ 1000 m

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

Length Tolerance per drum ± 2%

Electrical Data

Nom. Cross Sect. (mm ²)	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	28	33	0.21
2.5	7.41	9.449	0.293	37	43	0.36
4	4.61	5.878	0.275	49	55	0.57
6	3.08	3.927	0.263	63	69	0.86
10	1.83	2.334	0.248	86	92	1.43
16	1.15	1.467	0.238	115	120	2.29
25	0.727	0.927	0.240	154	155	3.58
35	0.524	0.669	0.233	189	185	5.01
50	0.387	0.494	0.232	220	212	7.15
70	0.268	0.342	0.229	277	258	10.01
95	0.193	0.247	0.224	339	309	13.59
120	0.153	0.196	0.223	394	350	17.16
150	0.124	0.160	0.224	455	395	21.45
185	0.0991	0.128	0.225	516	442	26.46
240	0.0754	0.099	0.223	605	506	34.32
300	0.0601	0.080	0.221	687	565	42.90

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

N2XRY 5 x (1.5-50) mm² 0.6/1 kV Cu / XLPE / SWA / PVC

(Copper Conductor, XLPE Insulated, Galvanized Steel Wire Armor, PVC Sheathed)
Standard Specification : IEC 60502-1

Construction Data

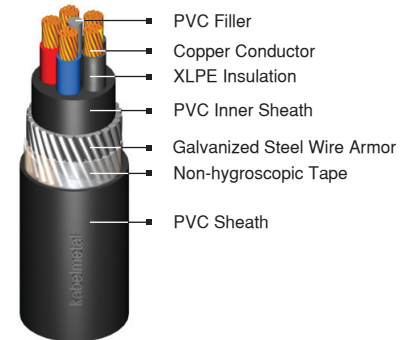
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm ²	mm	kg/km
1.5	15.8	441
2.5	17.0	535
4	19.3	768
6	21.0	921
10	23.5	1,235
16	27.0	1,765
25	31.5	2,423
35	34.5	3,057
50	40.0	4,099

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

- Fire Resistance
- 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

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

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

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

Standard Packing

1.5 - 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. (mm ²)	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	in ground	
				Max. (A)	Max. (A)	
1.5	12.1	15.429	0.315	29	33	0.21
2.5	7.41	9.449	0.293	38	43	0.36
4	4.61	5.878	0.275	51	56	0.57
6	3.08	3.927	0.263	65	70	0.86
10	1.83	2.334	0.248	89	94	1.43
16	1.15	1.467	0.238	119	121	2.29
25	0.727	0.927	0.240	160	157	3.58
35	0.524	0.669	0.233	196	188	5.01
50	0.387	0.494	0.232	238	221	7.15

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