

FIRE RESISTANT CABLES

N2XB(AL)Y 1 x (16-800) mm² 0.6/1 kV

Cu / Mica / XLPE / DATA / PVC

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

Construction Data

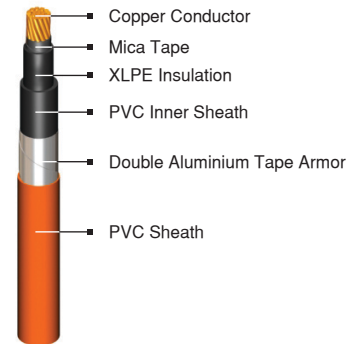
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm ²	mm	kg/km
16	15.5	386
25	16.9	494
35	18.0	602
50	19.4	749
70	21.5	988
95	23.5	1,254
120	25.5	1,535
150	27.5	1,823
185	30.0	2,209
240	33.0	2,864
300	36.0	3,445
400	39.5	4,358
500	44.0	5,465
630	48.5	6,968
800	54.0	8,765

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

- 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

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

Standard Packing

16 - 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 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 Max. (A)	in ground Max. (A)	in air Max. (A)	in ground Max. (A)	
16	1.15	1.466	0.414	0.460	118	118	121	121	2.29
25	0.727	0.927	0.385	0.431	154	153	158	157	3.58
35	0.524	0.668	0.366	0.412	188	183	193	188	5.01
50	0.387	0.494	0.348	0.394	229	217	235	223	7.15
70	0.268	0.342	0.331	0.377	287	265	295	272	10.01
95	0.193	0.247	0.316	0.362	352	317	361	324	13.59
120	0.153	0.196	0.307	0.353	407	359	418	367	17.16
150	0.124	0.159	0.302	0.348	465	402	476	410	21.45
185	0.0991	0.128	0.296	0.342	537	453	549	461	26.46
240	0.0754	0.098	0.287	0.333	636	523	648	529	34.32
300	0.0601	0.079	0.281	0.327	728	585	739	590	42.90
400	0.0470	0.064	0.278	0.325	838	655	846	657	57.20
500	0.0366	0.051	0.273	0.319	960	731	964	728	71.50
630	0.0283	0.042	0.267	0.313	1092	807	1087	797	90.09
800	0.0221	0.035	0.264	0.310	1216	877	1202	858	114.40

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

FIRE RESISTANT CABLES

N2XBY 2 x (1.5-300) mm² 0.6/1 kV

Cu / Mica / XLPE / DSTA / PVC

(Copper Conductor, Mica Tape, XLPE Insulated, Double Galvanized Steel Tape Armor, PVC Sheathed)
 Standard Specification : IEC 60502-1 and IEC 60331

Construction Data

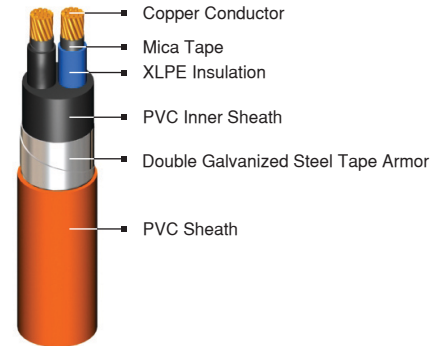
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm ²	mm	kg/km
1.5	15.6	336
2.5	16.5	387
4	17.6	456
6	19.1	543
10	21.0	694
16	22.5	831
25	25.5	1,130
35	27.5	1,408
50	30.5	1,738
70	35.0	2,386
95	39.5	3,391
120	43.5	4,056
150	48.5	4,964
185	53.0	5,944
240	58.5	7,407
300	64.0	9,001

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 :

- 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	
1.5	12.1	15.429	0.315	29	34	0.21
2.5	7.41	9.449	0.293	39	45	0.36
4	4.61	5.878	0.275	51	59	0.57
6	3.08	3.927	0.263	65	74	0.86
10	1.83	2.334	0.248	89	100	1.43
16	1.15	1.466	0.238	118	130	2.29
25	0.727	0.927	0.240	157	167	3.58
35	0.524	0.668	0.233	193	201	5.01
50	0.387	0.494	0.232	233	239	7.15
70	0.268	0.342	0.229	295	293	10.01
95	0.193	0.247	0.224	360	350	13.59
120	0.153	0.196	0.223	423	401	17.16
150	0.124	0.160	0.224	482	449	21.45
185	0.0991	0.128	0.225	551	505	26.46
240	0.0754	0.099	0.223	652	584	34.32
300	0.0601	0.080	0.221	744	656	42.90

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

FIRE RESISTANT CABLES

N2XBY 3 x (1.5-300) mm² 0.6/1 kV

Cu / Mica / XLPE / DSTA / PVC

(Copper Conductor, Mica Tape, XLPE Insulated, Double Galvanized Steel Tape Armor, PVC Sheathed)
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Construction Data

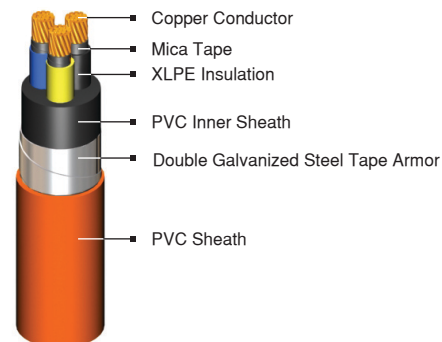
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm ²	mm	kg/km
1.5	16.3	371
2.5	17.3	433
4	18.5	517
6	20.5	624
10	22.5	813
16	23.5	998
25	27.0	1,382
35	29.5	1,745
50	32.5	2,168
70	38.5	3,346
95	42.0	4,251
120	46.0	5,122
150	51.5	6,268
185	56.5	7,573
240	62.5	9,633
300	68.5	11,670

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

- 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 - 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	33	38	0.36
4	4.61	5.878	0.275	43	50	0.57
6	3.08	3.927	0.263	55	62	0.86
10	1.83	2.334	0.248	75	84	1.43
16	1.15	1.467	0.238	100	109	2.29
25	0.727	0.927	0.240	133	140	3.58
35	0.524	0.669	0.233	164	169	5.01
50	0.387	0.494	0.232	202	205	7.15
70	0.268	0.343	0.229	255	250	10.01
95	0.193	0.247	0.224	312	299	13.59
120	0.153	0.197	0.223	366	342	17.16
150	0.124	0.160	0.224	418	382	21.45
185	0.0991	0.129	0.225	483	433	26.46
240	0.0754	0.099	0.223	569	499	34.32
300	0.0601	0.081	0.221	652	561	42.90

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

FIRE RESISTANT CABLES

N2XBY 4 x (1.5-300) mm² 0.6/1 kV

Cu / Mica / XLPE / DSTA / PVC

(Copper Conductor, Mica Tape, XLPE Insulated, Double Galvanized Steel Tape Armor, PVC Sheathed)
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Construction Data

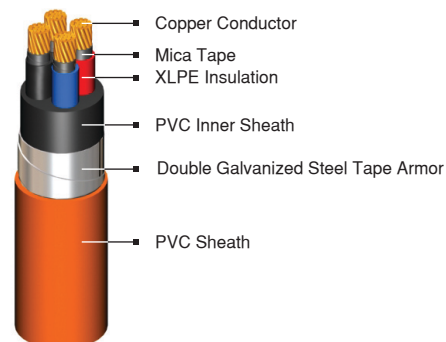
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm ²	mm	kg/km
1.5	17.6	423
2.5	18.7	499
4	20.0	603
6	22.0	734
10	24.5	970
16	25.5	1,206
25	29.5	1,689
35	32.5	2,164
50	37.0	3,115
70	42.5	4,163
95	46.5	5,334
120	51.5	6,547
150	57.0	7,897
185	62.5	9,698
240	69.5	12,255
300	75.5	14,895

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 :

- Oil Resistance
- UV Resistance
- Flame Retardant Cat. A, B, C
- Flame Retardant Non Category
- Anti Termite
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- 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 - 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 Max. (kA)
	DC Resistance at 20°C	AC Resistance at 90°C		in air	in ground	
	Max. (Ω/km)	Max. (Ω/km)		Max. (A)	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	55	0.57
6	3.08	3.927	0.263	60	68	0.86
10	1.83	2.334	0.248	83	91	1.43
16	1.15	1.467	0.238	110	118	2.29
25	0.727	0.927	0.240	148	152	3.58
35	0.524	0.669	0.233	183	183	5.01
50	0.387	0.494	0.232	214	210	7.15
70	0.268	0.343	0.229	269	256	10.01
95	0.193	0.247	0.224	334	309	13.59
120	0.153	0.197	0.223	386	350	17.16
150	0.124	0.160	0.224	449	395	21.45
185	0.0991	0.129	0.225	512	444	26.46
240	0.0754	0.099	0.223	604	513	34.32
300	0.0601	0.081	0.221	692	577	42.90

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