

NYKB(AL)Y 1 x (16-800) mm² 0.6/1 kV

Cu / PVC / LS / PVC / ATA / PVC

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

Construction Data

Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm²	mm	kg/km
16	22.0	1,150
25	22.0	1,220
35	22.0	1,295
50	23.5	1,544
70	25.5	1,849
95	28.0	2,311
120	29.5	2,643
150	31.5	3,048
185	34.0	3,694
240	37.5	4,616
300	41.0	5,526
400	45.5	6,862
500	49.5	8,287
630	54.5	10,299
800	60.0	12,573

Application :

For indoors, outdoors, in ground and in duct. Mainly on chemical industries, refineries, petrol stations and any other locations where there is a risk that solvent, fuel and other chemicals may penetrate and low mechanical damage may occur.

Special Features on Request :

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



Note :

Conductor Shape

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

Standard Packing

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

Electrical Data

Conductor			Inductance		Current - Carrying Capacity at 30° C *				Short circuit current at 1 sec
Nom. Cross Sect.	DC Resistance at 20°C	AC Resistance at 70°C	Trefoil formation	Flat formation					
					in air	in ground	in air	in ground	
					Max. (A)	Max. (A)	Max. (A)	Max. (A)	
(mm²)	Max. (Ω/km)	Max. (Ω/km)	(mH/km)	(mH/km)					Max. (kA)
16	1.15	1.376	0.479	0.526	101	98	103	101	1.84
25	0.727	0.870	0.431	0.477	132	128	135	131	2.88
35	0.524	0.627	0.400	0.447	160	154	164	157	4.03
50	0.387	0.463	0.379	0.426	193	182	198	186	5.75
70	0.268	0.321	0.359	0.405	241	222	247	227	8.05
95	0.193	0.232	0.347	0.393	294	265	300	270	10.93
120	0.153	0.184	0.335	0.381	338	301	345	305	13.80
150	0.124	0.150	0.329	0.375	384	335	391	340	17.25
185	0.0991	0.120	0.321	0.368	440	377	447	380	21.28
240	0.0754	0.092	0.313	0.359	518	432	523	434	27.60
300	0.0601	0.074	0.308	0.355	588	480	592	480	34.50
400	0.0470	0.059	0.306	0.352	670	534	669	529	41.20
500	0.0366	0.048	0.298	0.344	759	591	752	580	51.50
630	0.0283	0.039	0.290	0.336	854	648	838	629	64.89
800	0.0221	0.033	0.284	0.331	941	697	915	670	82.40

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

NYKBY 2 x (1.5-300) mm² 0.6/1 kV

Cu / PVC / LS / PVC / STA / PVC

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

Construction Data

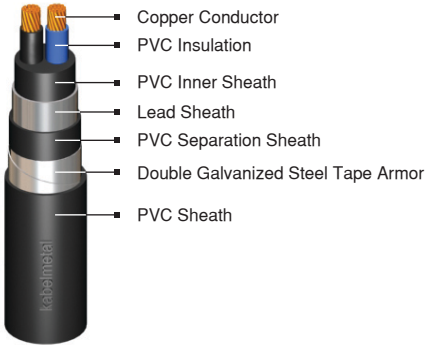
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm²	mm	kg/km
1.5	21.0	1,057
2.5	21.0	1,081
4	21.0	1,111
6	21.0	1,146
10	23.0	1,378
16	25.0	1,651
25	28.0	2,083
35	30.5	2,550
50	34.0	3,187
70	38.5	4,077
95	45.0	5,678
120	48.5	6,672
150	53.0	7,953
185	58.5	9,596
240	65.0	12,034
300	71.5	14,464

Application :

For indoors, outdoors, in ground and in duct. Mainly on chemical industries, refineries, petrol stations and any other locations where there is a risk that solvent, fuel and other chemicals may penetrate and low mechanical damage may occur.

Special Features on Request :

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



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 $\pm 2\%$

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 70°C		in air	in ground	
(mm²)			(mH/km)			
1.5	12.1	14.478	0.351	24	27	0.17
2.5	7.41	8.866	0.315	32	35	0.29
4	4.61	5.516	0.303	42	47	0.46
6	3.08	3.685	0.288	54	60	0.69
10	1.83	2.190	0.269	73	80	1.15
16	1.15	1.376	0.255	97	105	1.84
25	0.727	0.870	0.255	127	135	2.88
35	0.524	0.627	0.246	156	162	4.03
50	0.387	0.464	0.247	187	191	5.75
70	0.268	0.321	0.238	235	236	8.05
95	0.193	0.232	0.238	287	280	10.93
120	0.153	0.184	0.233	332	320	13.80
150	0.124	0.150	0.233	377	358	17.25
185	0.0991	0.121	0.233	428	401	21.28
240	0.0754	0.093	0.232	501	461	27.60
300	0.0601	0.075	0.231	567	514	34.50

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

NYKBY 3 x (1.5-300) mm² 0.6/1 kV

Cu / PVC / LS / PVC / STA / PVC

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

Construction Data

Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm²	mm	kg/km
1.5	21.0	1,082
2.5	21.0	1,099
4	21.0	1,132
6	22.0	1,261
10	24.0	1,539
16	26.0	1,873
25	29.5	2,402
35	32.5	2,986
50	35.5	3,417
70	41.0	4,797
95	45.5	6,103
120	49.0	7,208
150	54.5	8,839
185	59.5	10,622
240	66.5	13,440
300	72.5	16,067

Application :

For indoors, outdoors, in ground and in duct. Mainly on chemical industries, refineries, petrol stations and any other locations where there is a risk that solvent, fuel and other chemicals may penetrate and low mechanical damage may occur.

Special Features on Request :

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



- Copper Conductor
- PVC Insulation
- PVC Inner Sheath
- Lead Sheath
- PVC Separation Sheath
- Double Galvanized Steel Tape Armor
- PVC Sheath

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

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 70°C		in air	in ground	
(mm²)			(mH/km)			
1.5	12.1	14.478	0.351	21	23	0.17
2.5	7.41	8.866	0.315	27	30	0.29
4	4.61	5.516	0.303	36	40	0.46
6	3.08	3.685	0.288	46	51	0.69
10	1.83	2.190	0.269	63	68	1.15
16	1.15	1.376	0.255	83	89	1.84
25	0.727	0.870	0.255	108	114	2.88
35	0.524	0.627	0.246	133	137	4.03
50	0.387	0.464	0.247	166	168	5.75
70	0.268	0.321	0.238	210	206	8.05
95	0.193	0.232	0.238	257	246	10.93
120	0.153	0.184	0.233	296	280	13.80
150	0.124	0.150	0.233	336	312	17.25
185	0.0991	0.121	0.233	385	352	21.28
240	0.0754	0.093	0.232	451	404	27.60
300	0.0601	0.075	0.231	513	452	34.50

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

NYKBY 4 x (1.5-300) mm² 0.6/1 kV

Cu / PVC / LS / PVC / STA / PVC

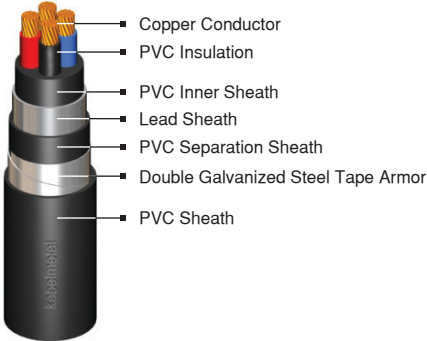
(Copper Conductor, PVC Insulated, Lead Sheathed, Double Galvanized Steel Tape Armor, PVC Sheathed)
Standard Specification : IEC 60502-1

Construction Data

Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm ²	mm	kg/km
1.5	21.0	1,077
2.5	21.0	1,113
4	22.0	1,246
6	23.5	1,421
10	25.5	1,766
16	28.0	2,175
25	32.0	2,933
35	35.5	3,655
50	42.5	4,827
70	46.0	6,047
95	52.5	7,932
120	57.0	9,433
150	63.5	11,427
185	68.5	13,621
240	76.0	17,132
300	83.0	20,793

Application :
For indoors, outdoors, in ground and in duct. Mainly on chemical industries, refineries, petrol stations and any other locations where there is a risk that solvent, fuel and other chemicals may penetrate and low mechanical damage may occur.

- Special Features on Request :**
- Fire Resistance
 - Oil Resistance
 - UV Resistance
 - Flame Retardant Cat. A, B, C
 - Flame Retardant Non Category
 - Heat Resistance
 - Anti Termite
 - Anti Rodent
 - Low Smoke Zero Halogen



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

Standard Packing
1.5 - 35 sqmm supplied in wooden drum @ 1000 m
50 - 300 sqmm will be supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Electrical Data

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 70°C		in air	in ground	
(mm²)			(mH/km)			
1.5	12.1	14.478	0.340	24	27	0.17
2.5	7.41	8.866	0.315	32	35	0.29
4	4.61	5.516	0.303	42	47	0.46
6	3.08	3.685	0.288	53	58	0.69
10	1.83	2.190	0.269	72	77	1.15
16	1.15	1.376	0.255	94	100	1.84
25	0.727	0.870	0.255	126	128	2.88
35	0.524	0.627	0.246	154	153	4.03
50	0.387	0.464	0.247	178	173	5.75
70	0.268	0.321	0.238	222	212	8.05
95	0.193	0.232	0.238	272	254	10.93
120	0.153	0.184	0.233	313	287	13.80
150	0.124	0.150	0.233	360	323	17.25
185	0.0991	0.121	0.233	406	361	21.28
240	0.0754	0.093	0.232	478	415	27.60
300	0.0601	0.075	0.231	542	463	34.50

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

NYKBY 5 x (1.5-50) mm² 0.6/1 kV

Cu / PVC / LS / PVC / STA / PVC

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

Construction Data

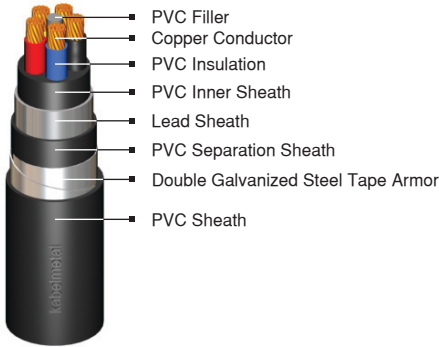
Nom. Cross Section Area	Overall Diameter	Cable Weight
	approx.	approx.
mm²	mm	kg/km
1.5	21.0	1,105
2.5	21.0	1,131
4	23.5	1,400
6	25.0	1,610
10	27.5	2,014
16	30.5	2,591
25	35.0	3,522
35	40.0	4,783
50	45.5	6,064

Application :

For indoors, outdoors, in ground and in duct. Mainly on chemical industries, refineries, petrol stations and any other locations where there is a risk that solvent, fuel and other chemicals may penetrate and low mechanical damage may occur.

Special Features on Request :

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



Note :

Conductor Shape

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

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

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

Standard Packing

1.5 - 25 sqmm supplied in wooden drum @ 1000 m

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

Length Tolerance per drum ± 2%

Electrical Data

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 70°C		in air	in ground	
(mm²)			(mH/km)			
1.5	12.1	14.478	0.340	25	27	0.17
2.5	7.41	8.866	0.304	32	36	0.29
4	4.61	5.516	0.303	43	47	0.46
6	3.08	3.685	0.288	54	59	0.69
10	1.83	2.190	0.269	74	79	1.15
16	1.15	1.376	0.255	98	101	1.84
25	0.727	0.870	0.255	130	130	2.88
35	0.524	0.627	0.246	160	155	4.03
50	0.387	0.464	0.247	192	182	5.75

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