MARKET CABLE

PT VOKSEL ELECTRIC Tbk.

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MARKET CABLE

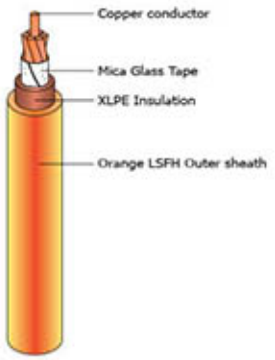
PT VOKSEL ELECTRIC Tbk.

FIRE RESISTANCE CABLES

N2XY 1 x (1.5 - 800) mm² 0.6/1 kV
Cu / MGT / XLPE / LSFH

PT VOKSEL ELECTRIC Tbk.

(Copper Conductor, Mica Glass Tape, XLPE Insulated, Low Smoke Free Halogen Sheathed)
Standard Specification : SS 299, BS 6387 & IEC 60331



Application:

For wiring of fire resistance 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:

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

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

Standard Packing

1.5 - 10 sqmm supplied in coil @ 100 meters

16 - 400 sqmm supplied in wooden drum @ 1000 meters

500 - 800 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
1.5	6.9	59
2.5	7.5	75
4	7.9	93
6	8.1	110
10	9.0	155
16	10.0	215
25	11.7	315
35	12.8	405
50	14.5	535
70	16.5	745
95	18.5	1,005
120	20.5	1,245
150	22.5	1,530
185	25.0	1,895
240	28.0	2,465
300	31.0	3,075
400	35.0	3,935
500	39.5	5,025
630	43.0	6,375
800	49.0	8,185

Electrical Data

Conductor			Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)	(mH/km)	In air Max. (A)	In ground Max. (A)	
1.5	12.1	15.429	0.478	35	43	0.22
2.5	7.41	9.449	0.441	43	58	0.37
4	4.61	5.787	0.409	57	76	0.59
6	3.08	3.927	0.387	72	95	0.89
10	1.83	2.334	0.356	98	128	1.49
16	1.15	1.466	0.333	132	169	2.38
25	0.727	0.927	0.317	187	220	3.71
35	0.524	0.668	0.303	217	265	5.20
50	0.387	0.494	0.290	263	316	7.43
70	0.268	0.342	0.280	331	385	10.40
95	0.193	0.347	0.272	408	465	14.11
120	0.153	0.196	0.268	474	531	17.83
150	0.124	0.160	0.267	550	597	22.29
185	0.0991	0.128	0.265	633	680	27.49
240	0.0754	0.099	0.260	750	790	35.66
300	0.0601	0.080	0.255	871	901	44.57
400	0.0470	0.064	0.254	1019	1032	59.43
500	0.0366	0.052	0.251	1188	1180	74.29
630	0.0283	0.043	0.247	1241	1233	93.60
800	0.0221	0.036	0.244	1295	1287	118.86

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

FIRE RESISTANCE CABLES

N2XY 2 x (1.5 - 300) mm² 0.6/1 kV
Cu / MGT / XLPE / LSFH

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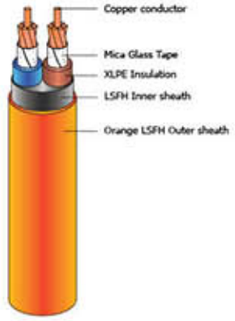

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Special Features on Request:
- UV Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

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 non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape

Standard Packing

1.5 - 120 sqmm supplied in wooden drum @ 1000 meters

150 - 300 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
1.5	14.5	255
2.5	15.5	305
4	16.5	365
6	18.0	445
10	20.0	585
16	22.0	755
25	25.0	1,050
35	27.5	1,325
50	30.0	1,625
70	34.5	2,250
95	38.0	2,875
120	41.5	3,485
150	46.5	4,335
185	51.0	5,255
240	56.5	6,645
300	62.5	8,205

Electrical Data

Conductor			Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)	(mH/km)	in air Max. (A)	in ground Max. (A)	
1.5	12.1	15.429	0.315	27	33	0.22
2.5	7.41	9.449	0.293	36	44	0.37
4	4.61	5.878	0.275	48	58	0.59
6	3.08	3.927	0.263	61	72	0.89
10	1.83	2.334	0.248	83	97	1.49
16	1.15	1.467	0.238	113	128	2.38
25	0.727	0.927	0.240	150	167	3.71
35	0.524	0.669	0.233	186	201	5.20
50	0.387	0.494	0.232	226	239	7.43
70	0.268	0.342	0.229	290	295	10.40
95	0.193	0.247	0.224	353	355	14.11
120	0.153	0.196	0.223	413	404	17.83
150	0.124	0.160	0.224	468	458	22.29
185	0.0991	0.128	0.225	540	516	27.49
240	0.0754	0.099	0.223	590	600	35.66
300	0.0601	0.080	0.221	745	695	44.57

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

FIRE RESISTANCE CABLES

N2XY 3 x (1.5 - 300) mm² 0.6/1 kV
Cu / MGT / XLPE / LSFH

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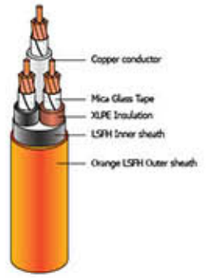

Application:
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Special Features on Request:
- UV Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

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 non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape

Standard Packing

1.5 - 95 sqmm supplied in wooden drum @ 1000 meters

120 - 300 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
1.5	15.5	285
2.5	16.5	335
4	17.5	415
6	19.0	515
10	21.0	690
16	23.5	915
25	26.5	1,290
35	29.0	1,645
50	32.0	2,040
70	37.0	2,830
95	40.5	3,685
120	44.5	4,495
150	50.0	5,575
185	54.5	6,815
240	61.0	8,795
300	66.5	10,755

Electrical Data

Conductor			Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)	(mH/km)	in air Max. (A)	in ground Max. (A)	
1.5	12.1	15.429	0.315	23	29	0.22
2.5	7.41	9.449	0.293	32	38	0.37
4	4.61	5.878	0.275	41	49	0.59
6	3.08	3.927	0.263	52	60	0.89
10	1.83	2.334	0.248	71	97	1.49
16	1.15	1.467	0.238	96	108	2.38
25	0.727	0.927	0.240	130	141	3.71
35	0.524	0.669	0.233	159	170	5.20
50	0.387	0.494	0.232	193	201	7.43
70	0.268	0.342	0.229	245	249	10.40
95	0.193	0.247	0.224	302	299	14.11
120	0.153	0.196	0.223	349	340	17.83
150	0.124	0.160	0.224	400	381	22.29
185	0.0991	0.128	0.225	464	434	27.49
240	0.0754	0.099	0.223	552	506	35.66
300	0.0601	0.080	0.221	640	585	44.57

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

FIRE RESISTANCE CABLES

N2XY 4 x (1.5 - 300) mm² 0.6/1 kV
Cu / MGT / XLPE / LSFH

(Copper Conductor, Mica Glass Tape, XLPE Insulated, Low Smoke Free Halogen Sheathed)
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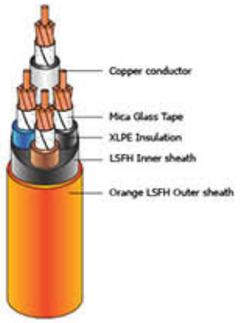

Application:
For wiring of fire resistance safety circuits, such as fire alarm system, emergency lighting and power, public address and emergency voice communication systems in highrise building, control and instrumentation services in industrial, commercial and residential complexes.

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

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 non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape

Standard Packing

1.5 - 70 sqmm supplied in wooden drum @ 1000 meters

95 - 300 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
1.5	16.5	325
2.5	17.5	390
4	19.0	485
6	20.5	605
10	23.0	840
16	25.5	1,125
25	29.0	1,605
35	32.0	2,075
50	36.0	2,630
70	41.0	3,585
95	44.5	4,700
120	50.0	5,850
150	55.5	7,145
185	61.0	8,850
240	67.5	11,315
300	74.0	13,870

Electrical Data

Conductor			Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit curent at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)	(mH/km)	in air Max. (A)	in ground Max. (A)	
1.5	12.1	15.429	0.315	23	29	0.22
2.5	7.41	9.449	0.293	32	38	0.37
4	4.61	5.878	0.275	41	49	0.59
6	3.08	3.927	0.263	52	60	0.89
10	1.83	2.334	0.248	71	97	1.49
16	1.15	1.467	0.238	96	108	2.38
25	0.727	0.927	0.240	130	141	3.71
35	0.524	0.669	0.233	159	170	5.20
50	0.387	0.494	0.232	193	201	7.43
70	0.268	0.342	0.229	245	249	10.40
95	0.193	0.247	0.224	302	299	14.11
120	0.153	0.196	0.223	349	340	17.83
150	0.124	0.160	0.224	400	381	22.29
185	0.0991	0.128	0.225	464	434	27.49
240	0.0754	0.099	0.223	552	506	35.66
300	0.0601	0.080	0.221	640	586	44.57

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

N2XY 1 x (1.5 - 500) mm² 0.6/1 kV

Cu / XLPE / PVC

(Copper Conductor, XLPE Insulated, PVC Sheathed)
Standard Specification : SPLN 43 - 6 & IEC 60502 - 1

PT VOKSEL ELECTRIC Tbk.

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

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

Standard Packing

1.5 - 10 sqmm supplied in coil @ 100 meters

16 - 300 sqmm supplied in wooden drum @ 1000 meters

400 - 500 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
1.5	5.8	47
2.5	6.2	59
4	6.8	77
6	7.3	98
10	8.2	145
16	9.3	205
25	11.0	305
35	12.1	405
50	14.0	525
70	16.0	730
95	18.0	1,005
120	20.0	1,250
150	22.0	1,525
185	24.0	1,885
240	27.5	2,475
300	30.0	3,045
400	34.0	3,930
500	38.0	4,960

Electrical Data

Conductor			Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)	(mH/km)	in air Max. (A)	in ground Max. (A)	
1.5	12.1	15.429	0.452	35	43	0.22
2.5	7.41	9.449	0.417	43	58	0.37
4	4.61	5.787	0.387	57	76	0.59
6	3.08	3.927	0.364	72	95	0.89
10	1.83	2.334	0.336	98	128	1.49
16	1.15	1.466	0.315	132	169	2.38
25	0.727	0.927	0.302	187	220	3.71
35	0.524	0.668	0.289	217	265	5.20
50	0.387	0.494	0.279	263	316	7.43
70	0.268	0.342	0.270	331	385	10.40
95	0.193	0.347	0.263	408	465	14.11
120	0.153	0.196	0.259	474	531	17.83
150	0.124	0.160	0.259	550	597	22.29
185	0.0991	0.128	0.258	633	680	27.49
240	0.0754	0.099	0.253	750	790	35.66
300	0.0601	0.080	0.249	871	901	44.57
400	0.0470	0.064	0.249	1019	1032	59.43
500	0.0366	0.052	0.246	1188	1180	74.29

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

N2XY 2 x (1.5 - 300) mm² 0.6/1 kV

Cu / XLPE / PVC

(Copper Conductor, XLPE Insulated, PVC Sheathed)
Standard Specification : SPLN 43 - 6 & IEC 60502 - 1

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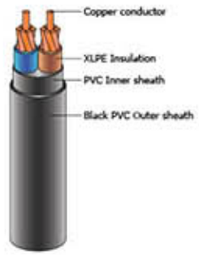

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- UV Resistance
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- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

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 non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape

Standard Packing

1.5 - 150 sqmm supplied in coil @ 100 meters

185 - 300 sqmm supplied in wooden drum @ 1000 meters

Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
1.5	11.5	170
2.5	12.5	205
4	14.0	260
6	15.0	320
10	17.0	445
16	19.0	605
25	22.0	885
35	24.5	1,145
50	27.5	1,480
70	31.5	2,025
95	36.0	2,745
120	40.0	3,415
150	44.0	4,180
185	49.0	5,210
240	55.0	6,730
300	61.0	8,335

Electrical Data

Conductor			Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)	(mH/km)	in air Max. (A)	in ground Max. (A)	
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4	4.61	5.878	0.275	48	58	0.59
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25	0.727	0.927	0.240	150	167	3.71
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50	0.387	0.494	0.232	226	239	7.43
70	0.268	0.342	0.229	290	295	10.40
95	0.193	0.247	0.224	353	355	14.11
120	0.153	0.196	0.223	413	404	17.83
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185	0.0991	0.128	0.225	540	516	27.49
240	0.0754	0.099	0.223	590	600	35.66
300	0.0601	0.080	0.221	745	695	44.57

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N2XY 3 x (1.5 - 300) mm² 0.6/1 kV

Cu / XLPE / PVC

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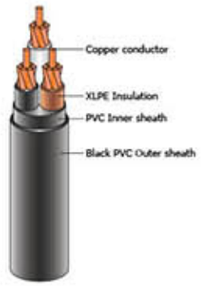

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- Fire Resistance
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- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

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 non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape

Standard Packing

1.5 - 120 sqmm supplied in coil @ 100 meters

150 - 300 sqmm supplied in wooden drum @ 1000 meters

Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
1.5	12.0	190
2.5	13.0	235
4	14.5	305
6	15.5	380
10	17.5	545
16	20.0	755
25	23.5	1,120
35	26.0	1,465
50	29.0	1,905
70	34.0	2,670
95	38.5	3,580
120	42.5	4,465
150	47.5	5,535
185	53.0	6,840
240	59.0	8,865
300	66.0	10,995

Electrical Data

Conductor			Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)	(mH/km)	in air Max. (A)	in ground Max. (A)	
1.5	12.1	15.429	0.315	23	29	0.22
2.5	7.41	9.449	0.293	32	38	0.37
4	4.61	5.878	0.275	41	49	0.59
6	3.08	3.927	0.263	52	60	0.89
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35	0.524	0.669	0.233	159	170	5.20
50	0.387	0.494	0.232	193	201	7.43
70	0.268	0.342	0.229	245	249	10.40
95	0.193	0.247	0.224	302	299	14.11
120	0.153	0.196	0.223	349	340	17.83
150	0.124	0.160	0.224	400	381	22.29
185	0.0991	0.128	0.225	464	434	27.49
240	0.0754	0.099	0.223	552	506	35.66
300	0.0601	0.080	0.221	640	585	44.57

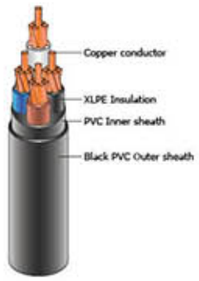
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

N2XY 4 x (1.5 - 300) mm² 0.6/1 kV

Cu / XLPE / PVC

(Copper Conductor, XLPE Insulated, PVC Sheathed)
Standard Specification : SPLN 43 - 6 & IEC 60502 - 1

PT VOKSEL ELECTRIC Tbk.



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

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 non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape

50 - 400 sqmm supplied in non compacted circular stranded (rm) or compacted circular stranded (cm) or sector shaped stranded (sm) conductor

Standard Packing

1.5 - 70 sqmm supplied in wooden drum @ 1000 meters

95 - 300 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
1.5	13.0	220
2.5	14.0	275
4	15.5	360
6	17.0	460
10	19.0	665
16	21.5	935
25	25.5	1,395
35	28.5	1,840
50	29.5	2,240
70	34.5	3,125
95	39.0	4,205
120	43.0	5,305
150	48.0	6,445
185	53.5	8,045
240	59.5	10,430
300	65.0	12,945

Electrical Data

Conductor			Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)	(mH/km)	in air Max. (A)	in ground Max. (A)	
1.5	12.1	15.429	0.315	23	29	0.22
2.5	7.41	9.449	0.293	32	38	0.37
4	4.61	5.878	0.275	41	49	0.59
6	3.08	3.927	0.263	52	60	0.89
10	1.83	2.334	0.248	71	97	1.49
16	1.15	1.467	0.238	96	108	2.38
25	0.727	0.927	0.240	130	141	3.71
35	0.524	0.669	0.233	159	170	5.20
50	0.387	0.494	0.232	193	201	7.43
70	0.268	0.342	0.229	245	249	10.40
95	0.193	0.247	0.224	302	299	14.11
120	0.153	0.196	0.223	349	340	17.83
150	0.124	0.160	0.224	400	381	22.29
185	0.0991	0.128	0.225	464	434	27.49
240	0.0754	0.099	0.223	552	506	35.66
300	0.0601	0.080	0.221	640	585	44.57

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

NA2XY 1 x (10 - 800) mm² 0.6/1 kV

AL / XLPE / PVC

(Aluminium Conductor, XLPE Insulated, PVC Sheathed)
Standard Specification : SPLN 43 - 6 & IEC 60502 - 1

PT VOKSEL ELECTRIC Tbk.

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
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

Note:

Conductor Shape

10 - 16 sqmm supplied in solid (re) or 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 meters

Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
10	8.3	83
16	9.4	111
25	11.1	155
35	12.2	195
50	14.0	255
70	16.0	335
95	18.5	440
120	20.0	530
150	22.0	640
185	24.5	785
240	28.0	1,015
300	30.0	1,230
400	34.5	1,600
500	38.0	1,940
630	43.0	2,480
800	47.0	3,050

Electrical Data

Conductor			Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)	(mH/km)	In air Max. (A)	In ground Max. (A)	
10	3.08	3.949	0.336	72	95	0.98
16	1.91	2.449	0.311	102	131	1.57
25	1.20	1.539	0.302	137	170	2.45
35	0.868	1.113	0.289	168	205	3.43
50	0.641	0.822	0.279	204	242	4.91
70	0.443	0.568	0.269	257	301	6.87
95	0.320	0.411	0.263	316	360	9.32
120	0.253	0.325	0.260	368	421	11.77
150	0.206	0.265	0.258	421	463	14.72
185	0.164	0.212	0.258	488	525	18.15
240	0.125	0.162	0.253	583	615	23.55
300	0.100	0.130	0.249	675	700	29.44
400	0.0778	0.103	0.245	790	800	39.25
500	0.0605	0.081	0.245	921	915	49.06
630	0.0469	0.065	0.243	942	936	61.82
800	0.0367	0.053	0.241	1074	1068	78.50

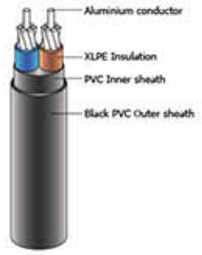
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NA2XY 2 x (10 - 300) mm² 0.6/1 kV

AL / XLPE / PVC

(Aluminium Conductor, XLPE Insulated, PVC Sheathed)
Standard Specification : SPLN 43 - 6 & IEC 60502 - 1

PT VOKSEL ELECTRIC Tbk.



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
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

Note:

Conductor Shape

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

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

Standard Packing

10 - 185 sqmm supplied in wooden drum @ 1000 meters

240 - 300 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
10	17.0	325
16	19.0	425
25	22.5	595
35	25.0	735
50	28.5	965
70	32.0	1,255
95	36.5	1,635
120	40.0	1,985
150	44.5	2,415
185	50.0	3,015
240	56.0	3,815
300	62.0	4,715

Electrical Data

Conductor			Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)	(mH/km)	in air Max. (A)	in ground Max. (A)	
10	3.08	3.949	0.248	61	72	0.98
16	1.91	2.449	0.236	88	99	1.57
25	1.20	1.539	0.242	119	130	2.45
35	0.868	1.113	0.234	145	157	3.43
50	0.641	0.822	0.232	175	185	4.91
70	0.443	0.568	0.229	220	229	6.87
95	0.320	0.411	0.224	272	276	9.32
120	0.253	0.325	0.223	317	320	11.77
150	0.206	0.265	0.225	362	351	14.72
185	0.164	0.212	0.225	420	400	18.15
240	0.125	0.162	0.223	297	467	23.55
300	0.100	0.130	0.222	577	532	29.44

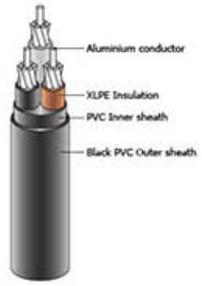
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NA2XY 3 x (10 - 300) mm² 0.6/1 kV

AL / XLPE / PVC

(Aluminium Conductor, XLPE Insulated, PVC Sheathed)
Standard Specification : SPLN 43 - 6 & IEC 60502 - 1

PT VOKSEL ELECTRIC Tbk.



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
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

Note:

Conductor Shape

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

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

Standard Packing

10 - 185 sqmm supplied in wooden drum @ 1000 meters

240 - 300 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
10	17.5	365
16	20.0	480
25	24.0	680
35	26.0	845
50	30.0	1,110
70	35.0	1,500
95	39.0	1,895
120	43.0	2,305
150	48.0	2,870
185	53.0	3,530
240	60.0	4,525
300	66.0	5,525

Electrical Data

Conductor			Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)	(mH/km)	in air Max. (A)	in ground Max. (A)	
10	3.08	3.949	0.248	52	60	0.98
16	1.91	2.449	0.236	75	84	1.57
25	1.20	1.539	0.242	100	110	2.45
35	0.868	1.113	0.234	123	132	3.43
50	0.641	0.822	0.232	149	156	4.91
70	0.443	0.568	0.229	189	193	6.87
95	0.320	0.411	0.224	233	232	9.32
120	0.253	0.325	0.223	271	268	11.77
150	0.206	0.265	0.225	310	296	14.72
185	0.164	0.212	0.225	359	336	18.15
240	0.125	0.162	0.223	429	429	23.55
300	0.100	0.130	0.222	496	447	29.44

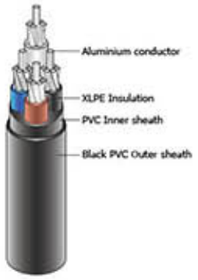
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NA2XY 4 x (10 - 300) mm² 0.6/1 kV

AL / XLPE / PVC

(Aluminium Conductor, XLPE Insulated, PVC Sheathed)
Standard Specification : SPLN 43 - 6 & IEC 60502 - 1

PT VOKSEL ELECTRIC Tbk.



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
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

Note:

Conductor Shape

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

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

50 - 400 sqmm supplied in non compacted circular stranded (rm) or compacted circular stranded (cm) or sector shaped stranded (sm) conductor

Standard Packing

10 - 120 sqmm supplied in wooden drum @ 1000 meters

150 - 300 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
10	19.0	425
16	22.0	565
25	26.0	810
35	28.5	1,015
50	29.5	1,055
70	34.5	1,435
95	39.0	1,820
120	43.0	2,240
150	48.0	2,725
185	53.5	3,365
240	59.5	4,280
300	65.0	5,205

Electrical Data

Conductor			Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)	(mH/km)	in air Max. (A)	in ground Max. (A)	
10	3.08	3.949	0.248	52	60	0.98
16	1.91	2.449	0.236	75	84	1.57
25	1.20	1.539	0.242	110	110	2.45
35	0.868	1.113	0.234	123	132	3.43
50	0.641	0.822	0.232	149	156	4.91
70	0.443	0.568	0.229	189	193	6.87
95	0.320	0.411	0.224	233	232	9.32
120	0.253	0.325	0.223	271	268	11.77
150	0.206	0.265	0.225	310	296	14.72
185	0.164	0.212	0.225	359	336	18.15
240	0.125	0.162	0.223	429	393	23.55
300	0.100	0.130	0.222	496	447	29.44

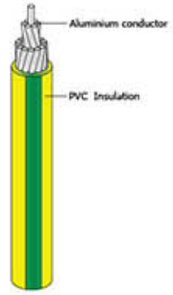
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NAYA 10 - 400 mm² 450 /750 V

AL / PVC

(Aluminium Conductor, PVC Insulated)
Standard Specification : IEC 60227 - 1

PT VOKSEL ELECTRIC Tbk.



Application:

For building wire installed in donduit in dry location, sometimes can be used as grounding conductor, inherently flame retardant in compliance with IEC 60332 - 1

Special Features on Request:

- Oil Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category

Note:

Conductor Shape

10 - 400 sqmm supplied in non compacted circular stranded (rm) conductor shape

Standard Packing

10 - 400 sqmm supplied in wooden drum @ 1000 meters

Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
10	6.1	55
16	7.2	79
25	8.9	120
35	10.0	155
50	12.0	215
70	14.0	290
95	16.0	385
120	17.5	465
150	20.0	575
185	22.0	725
240	25.0	935
300	28.0	1,160
400	32.0	1,505

Electrical Data

Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)	Insulation Resistance at 20 °C Min. (M.Ω.km)	(mH/km)	in pipe Max. (A)	in air Max. (A)	
10	3.08	3.701	0.0065	0.274	35	57	1.08
16	1.91	2.295	0.0050	0.258	48	77	1.72
25	1.20	1.442	0.0050	0.257	65	101	2.69
35	0.868	1.043	0.0040	0.249	80	123	3.77
50	0.641	0.771	0.0045	0.248	103	154	5.39
70	0.443	0.533	0.0035	0.239	129	191	7.54
95	0.320	0.385	0.0035	0.239	162	226	10.24
120	0.253	0.305	0.0032	0.235	184	269	12.93
150	0.206	0.249	0.0032	0.235	-	305	16.16
185	0.1640	0.199	0.0032	0.235	-	348	19.93
240	0.1250	0.152	0.0032	0.233	-	410	25.86
300	0.100	0.123	0.0030	0.232	-	473	32.33
400	0.0778	0.097	0.0028	0.229	-	566	43.10

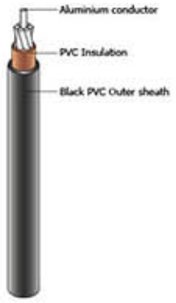
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NAYY 1 x (10 - 800) mm² 0.6/1 kV

AL / PVC / PVC

(Aluminium Conductor, PVC Insulated, PVC Sheathed)
Standard Specification : SPLN 43 - 1 & IEC 60502 - 1

PT VOKSEL ELECTRIC Tbk.



Special Features on Request:

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

Note:

Conductor Shape

10 - 16 sqmm supplied in solid (re) or 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 meters

Length Tolerance per drum ± 2%

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.

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
10	9.0	105
16	10.0	135
25	12.0	190
35	13.0	230
50	15.0	305
70	17.0	395
95	19.5	515
120	21.0	610
150	23.0	740
185	25.5	915
240	29.0	1,160
300	32.0	1,425
400	36.0	1,825
500	39.5	2,200
630	44.0	2,760
800	48.0	3,335

Electrical Data

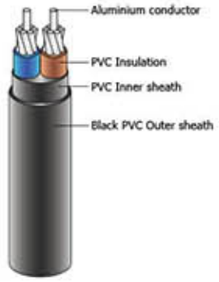
Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)	Insulation Resistance at 20 °C Min. (M.Ω.km)	(mH/km)	in air Max. (A)	in ground Max. (A))	
10	3.08	3.701	50	0.350	58	74	1.08
16	1.91	2.295	40	0.323	82	102	1.72
25	1.20	1.442	40	0.313	110	139	2.69
35	0.868	1.043	40	0.298	135	160	3.77
50	0.641	0.770	30	0.290	165	191	5.39
70	0.443	0.533	30	0.279	210	240	7.54
95	0.320	0.385	30	0.274	260	290	10.24
120	0.253	0.305	30	0.270	300	335	12.93
150	0.206	0.249	20	0.265	350	375	16.16
185	0.164	0.198	20	0.264	400	425	19.93
240	0.125	0.152	20	0.260	480	500	25.86
300	0.100	0.122	20	0.258	550	570	32.33
400	0.0778	0.096	20	0.252	660	660	43.10
500	0.0605	0.076	20	0.251	780	765	53.88
630	0.0469	0.061	20	0.246	820	800	67.88
800	0.0367	0.050	20	0.242	940	910	86.20

NAYY 2 x (10 - 300) mm² 0.6/1 kV

AL / PVC / PVC

(Aluminium Conductor, PVC Insulated, PVC Sheathed)
Standard Specification : SPLN 43 - 1 & IEC 60502 - 1

PT VOKSEL ELECTRIC Tbk.



Special Features on Request:

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

Note:

Conductor Shape

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

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

Standard Packing

10 - 150 sqmm supplied in wooden drum @ 1000 meters

185 - 300 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

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.

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
10	18.0	390
16	20.0	495
25	23.5	690
35	26.0	845
50	30.0	1,115
70	33.5	1,420
95	38.0	1,840
120	41.5	2,180
150	45.5	2,640
185	51.5	3,355
240	58.0	4,255
300	64.0	5,245

Electrical Data

Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)	Insulation Resistance at 20 °C Min. (M.Ω.km)	(mH/km)	in air Max. (A)	in ground Max. (A))	
10	3.08	3.701	50	0.269	48	59	1.08
16	1.91	2.295	40	0.253	70	79	1.72
25	1.20	1.442	40	0.257	94	102	2.69
35	0.868	1.043	40	0.247	115	125	3.77
50	0.641	0.770	30	0.247	140	147	5.39
70	0.443	0.533	30	0.238	155	156	7.54
95	0.320	0.385	30	0.238	190	191	10.24
120	0.253	0.305	30	0.233	220	220	12.93
150	0.206	0.248	20	0.235	245	245	16.16
185	0.164	0.198	20	0.233	275	275	19.93
240	0.125	0.152	20	0.232	320	320	25.86
300	0.100	0.122	20	0.231	365	365	32.33

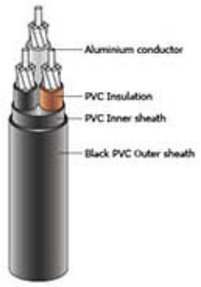
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NAYY 3 x (10 - 400) mm² 0.6/1 kV

AL / PVC / PVC

(Aluminium Conductor, PVC Insulated, PVC Sheathed)
Standard Specification : SPLN 43 - 1 & IEC 60502 - 1

PT VOKSEL ELECTRIC Tbk.



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
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

Note:

Conductor Shape

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

25 - 400 sqmm supplied in non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape

Standard Packing

10 - 150 sqmm supplied in wooden drum @ 1000 meters

185 - 400 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
10	19.0	445
16	21.5	570
25	25.0	795
35	27.5	980
50	32.0	1,300
70	36.5	1,710
95	41.0	2,215
120	45.0	2,615
150	50.0	3,215
185	55.0	3,960
240	62.5	5,080
300	69.0	6,230
400	78.0	7,980

Electrical Data

Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)	Insulation Resistance at 20 °C Min. (M.Ω.km)	(mH/km)	in air Max. (A)	in ground Max. (A)	
10	3.08	3.701	50	0.269	44	52	1.08
16	1.91	2.295	40	0.253	62	69	1.72
25	1.20	1.442	40	0.257	82	89	2.69
35	0.868	1.043	40	0.247	100	107	3.77
50	0.641	0.770	30	0.247	125	129	5.39
70	0.443	0.533	30	0.238	155	156	7.54
95	0.320	0.385	30	0.238	190	191	10.24
120	0.253	0.305	30	0.233	220	220	12.93
150	0.206	0.248	20	0.235	250	245	16.16
185	0.164	0.198	20	0.233	285	275	19.93
240	0.125	0.152	20	0.232	340	320	25.86
300	0.100	0.122	20	0.231	390	365	32.33
400	0.0778	0.096	20	0.229	460	420	43.10

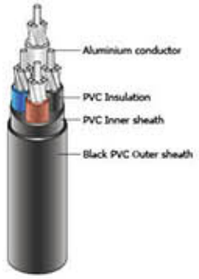
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NAYY 4 x (10 - 400) mm² 0.6/1 kV

AL / PVC / PVC

(Aluminium Conductor, PVC Insulated, PVC Sheathed)
Standard Specification : SPLN D3.010-2:2014 & IEC 60502 - 1

PT VOKSEL ELECTRIC Tbk.



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
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halagen

Note:

Conductor Shape

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

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

50 - 400 sqmm supplied in non compacted circular stranded (rm) or compacted circular stranded (cm) or sector shaped stranded (sm) conductor

Standard Packing

10 - 120 sqmm supplied in wooden drum @ 1000 meters

150 - 400 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
10	21.0	520
16	23.0	680
25	27.5	960
35	30.0	1,185
50	32.0	1,325
70	36.0	1,710
95	42.0	2,225
120	45.0	2,640
150	50.5	3,225
185	56.0	3,965
240	62.5	5,055
300	68.5	6,175
400	78.0	7,945

Electrical Data

Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)	Insulation Resistance at 20 °C Min. (M.Ω.km)	(mH/km)	in air Max. (A)	in ground Max. (A)	
10	3.08	3.701	50	0.269	44	52	1.08
16	1.91	2.295	40	0.253	62	69	1.72
25	1.20	1.442	40	0.257	82	89	2.69
35	0.868	1.043	40	0.247	100	107	3.77
50	0.641	0.770	30	0.247	125	129	5.39
70	0.443	0.533	30	0.238	155	156	7.54
95	0.320	0.385	30	0.238	190	191	10.24
120	0.253	0.305	30	0.233	220	220	12.93
150	0.206	0.248	20	0.235	250	245	16.16
185	0.164	0.198	20	0.233	285	275	19.93
240	0.125	0.152	20	0.232	340	320	25.86
300	0.100	0.122	20	0.231	390	365	32.33
400	0.0778	0.096	20	0.229	460	420	43.10

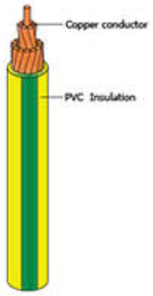
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYA 1.5 - 400 mm² 450 / 750 V

Cu / PVC

(Copper Conductor, PVC Insulated)
Standard Specification : SPLN 42 - 1, SNI 04 - 6629.3 & IEC 60227 - 1

PT VOKSEL ELECTRIC Tbk.



Special Features on Request:
- Fire Resistance
- Oil Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category

Note:

Conductor Shape

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

16 - 400 sqmm supplied in non compacted circular stranded (rm) conductor shape

Standard Packing

1.5 - 16 sqmm supplied in coil @ 100 meters

25 - 400 sqmm supplied in wooden drum @ 1000 meters

Length Tolerance per drum ± 2%

Application:
For building wire installed in donduit in dry location and interwiring in swich board and control panel.

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
1.5	2.9	20
2.5	3.5	31
4	3.9	46
6	4.4	65
10	5.6	110
16	7.2	175
25	9.0	270
35	10.0	365
50	12.0	495
70	13.5	690
95	16.0	955
120	17.5	1,185
150	19.5	1,465
185	22.0	1,825
240	25.0	2,415
300	27.5	2,980
400	31.5	3,885

Electrical Data

Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	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)	(mH/km)	in pipe Max. (A)	in air Max. (A)	
1.5	12.1	14.478	0.0100	0.320	15	24	0.17
2.5	7.41	8.866	0.0900	0.309	19	32	0.28
4	4.61	5.516	0.0077	0.290	25	42	0.45
6	3.08	3.685	0.0065	0.276	33	54	0.68
10	1.83	2.190	0.0065	0.274	45	73	1.13
16	1.15	1.376	0.0050	0.260	61	98	1.81
25	0.727	0.870	0.0050	0.257	83	129	2.82
35	0.524	0.627	0.0040	0.249	103	158	3.45
50	0.387	0.464	0.0045	0.248	132	197	5.65
70	0.268	0.321	0.0035	0.240	165	245	7.91
95	0.193	0.232	0.0032	0.239	207	290	10.73
120	0.153	0.184	0.0032	0.235	235	345	13.56
150	0.124	0.150	0.0032	0.235	-	390	16.94
185	0.0991	0.121	0.0032	0.235	-	445	20.90
240	0.0754	0.093	0.0032	0.233	-	525	27.11
300	0.0601	0.075	0.0030	0.232	-	605	33.89
400	0.0470	0.060	0.0028	0.231	-	725	40.06

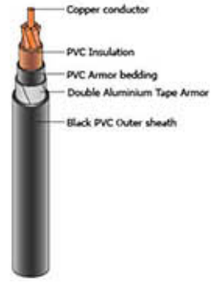
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYB(AL)Y 1 x (16 - 500) mm² 0.6/1 kV

Cu / PVC / DATA / PVC

(Copper Conductor, PVC Insulated, Double Aluminium Tape Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 1 & SPLN 43 - 3

PT VOKSEL ELECTRIC Tbk.



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

Note:

Conductor Shape

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

25 - 500 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 meters

400 - 500 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

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

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
16	15.0	265
25	16.5	495
35	18.0	610
50	19.5	765
70	21.0	995
95	23.5	1,300
120	25.0	1,565
150	27.0	1,880
185	29.5	2,290
240	33.0	2,935
300	36.0	3,620
400	40.0	4,565
500	44.0	5,690

Electrical Data

Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)	Insulation Resistance at 20 °C Min. (M.Ω.km)	(mH/km)	in air Max. (A)	in ground Max. (A)	
16	1.15	1.376	40	0.412	105	129	1.81
25	0.727	0.870	40	0.374	140	169	2.82
35	0.524	0.627	40	0.356	175	210	3.95
50	0.387	0.463	30	0.341	215	250	5.65
70	0.268	0.321	30	0.324	270	310	7.91
95	0.193	0.232	30	0.313	335	375	10.7
120	0.153	0.184	30	0.303	390	425	13.56
150	0.124	0.150	20	0.298	445	480	16.94
185	0.0991	0.120	20	0.291	510	550	20.90
240	0.0754	0.093	20	0.285	620	640	27.11
300	0.0601	0.075	20	0.279	710	730	33.89
400	0.0470	0.060	20	0.278	850	855	40.06
500	0.0366	0.049	20	0.272	1000	990	50.08

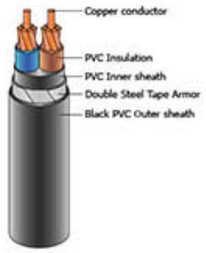
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYBY 2 x (1.5 - 300) mm² 0.6/1 kV

Cu / PVC / DSTA / PVC

(Copper Conductor, PVC Insulated, Double Steel Tape Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 1 & SPLN 43 - 3

PT VOKSEL ELECTRIC Tbk.



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

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

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 non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape

Standard Packing

1.5 - 120 sqmm supplied in wooden drum @ 1000 meters

150 - 300 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
1.5	13.0	260
2.5	14.0	305
4	15.5	405
6	16.5	480
10	18.5	630
16	21.0	825
25	24.0	1,160
35	26.5	1,455
50	30.0	1,880
70	34.0	2,480
95	40.5	3,710
120	44.0	4,445
150	48.0	5,370
185	53.0	6,580
240	59.5	8,375
300	66.0	10,280

Electrical Data

Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)	Insulation Resistance at 20 °C Min. (M.Ω.km)	(mH/km)	in air Max. (A)	in ground Max. (A)	
1.5	12.1	14.478	50	0.328	21	27	0.17
2.5	7.41	8.866	50	0.304	29	36	0.28
4	4.61	5.516	50	0.303	38	47	0.45
6	3.08	3.685	50	0.288	48	59	0.68
10	1.83	2.190	50	0.269	66	78	1.13
16	1.15	1.376	40	0.255	90	102	1.81
25	0.727	0.870	40	0.255	120	134	2.82
35	0.524	0.627	40	0.246	150	160	3.95
50	0.387	0.464	30	0.247	180	187	5.65
70	0.268	0.321	30	0.238	230	230	7.91
95	0.193	0.232	30	0.238	275	280	10.7
120	0.153	0.184	30	0.233	320	320	13.56
150	0.124	0.150	20	0.233	375	355	16.94
185	0.0991	0.121	20	0.233	430	409	20.9
240	0.0754	0.093	20	0.232	510	472	27.11
300	0.0601	0.075	20	0.231	590	525	33.89

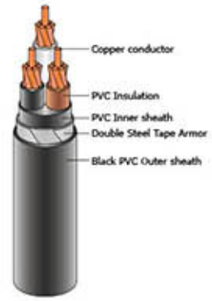
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYBY 3 x (1.5 - 300) mm² 0.6/1 kV

Cu / PVC / DSTA / PVC

(Copper Conductor, PVC Insulated, Double Steel Tape Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 1 & SPLN 43 - 3

PT VOKSEL ELECTRIC Tbk.



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

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

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 non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape

Standard Packing

1.5 - 95 sqmm supplied in wooden drum @ 1000 meters

120 - 300 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
1.5	13.5	285
2.5	14.5	345
4	16.5	465
6	18.0	555
10	20.0	745
16	22.0	990
25	25.5	1,420
35	28.0	1,805
50	32.0	2,350
70	38.0	3,485
95	43.0	4,635
120	47.0	5,890
150	52.0	6,830
185	57.0	8,320
240	64.0	10,710
300	71.0	13,085

Electrical Data

Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)	Insulation Resistance at 20 °C Min. (M.Ω.km)	(mH/km)	in air Max. (A)	in ground Max. (A)	
1.5	12.1	14.478	50	0.328	18	24	0.17
2.5	7.41	8.866	50	0.304	25	32	0.28
4	4.61	5.516	50	0.303	34	41	0.45
6	3.08	3.685	50	0.288	44	52	0.68
10	1.83	2.190	50	0.269	60	69	1.13
16	1.15	1.376	40	0.255	80	89	1.81
25	0.727	0.870	40	0.255	105	116	2.82
35	0.524	0.627	40	0.246	130	138	3.95
50	0.387	0.464	30	0.247	160	165	5.65
70	0.268	0.321	30	0.238	200	205	7.91
95	0.193	0.232	30	0.238	245	245	10.7
120	0.153	0.184	30	0.233	285	285	13.56
150	0.124	0.150	20	0.233	325	315	16.94
185	0.0991	0.121	20	0.233	370	355	20.9
240	0.0754	0.093	20	0.232	435	415	27.11
300	0.0601	0.075	20	0.231	500	465	33.89

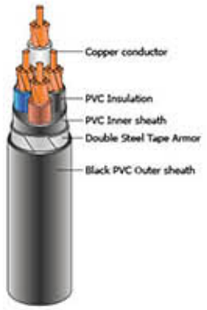
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYBY 4 x (1.5 - 300) mm² 0.6/1 kV

Cu / PVC / DSTA / PVC

(Copper Conductor, PVC Insulated, Double Steel Tape Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 1 & SPLN 43 - 3

PT VOKSEL ELECTRIC Tbk.



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

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

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 non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape

50 - 400 sqmm supplied in non compacted circular stranded (rm) or compacted circular stranded (cm) or sector shaped stranded (sm) conductor

Standard Packing

1.5 - 70 sqmm supplied in wooden drum @ 1000 meters

95 - 300 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
1.5	14.5	325
2.5	15.5	395
4	18.0	540
6	19.0	660
10	21.5	895
16	24.0	1,205
25	28.0	1,750
35	30.5	2,235
50	33.0	2,670
70	38.5	3,890
95	44.0	6,195
120	47.5	6,330
150	52.5	7,610
185	58.0	9,425
240	64.5	11,985
300	70.5	14,745

Electrical Data

Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)	Insulation Resistance at 20 °C Min. (M.Ω.km)	(mH/km)	in air Max. (A)	in ground Max. (A)	
1.5	12.1	14.478	50	0.328	18	24	0.17
2.5	7.41	8.866	50	0.304	25	32	0.28
4	4.61	5.516	50	0.303	34	41	0.45
6	3.08	3.685	50	0.288	44	52	0.68
10	1.83	2.190	50	0.269	60	69	1.13
16	1.15	1.376	40	0.255	80	89	1.81
25	0.727	0.870	40	0.255	105	116	2.82
35	0.524	0.627	40	0.246	130	138	3.95
50	0.387	0.464	30	0.247	160	165	5.65
70	0.268	0.321	30	0.238	200	205	7.91
95	0.193	0.232	30	0.238	245	245	10.7
120	0.153	0.184	30	0.233	285	280	13.56
150	0.124	0.150	20	0.233	325	315	16.94
185	0.0991	0.121	20	0.233	370	355	20.9
240	0.0754	0.093	20	0.232	435	415	27.11
300	0.0601	0.075	20	0.231	500	465	33.89

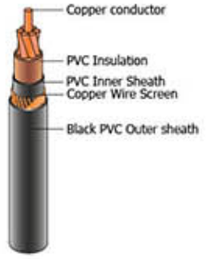
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYCY 1 x (1.5 - 500) mm² 0.6/1 kV

Cu / PVC / CWS / PVC

(Copper Conductor, PVC Insulated, Copper Wire Screen, PVC Sheathed)
Standard Specification : SPLN 43 - 4 & IEC 60502 - 1

PT VOKSEL ELECTRIC Tbk.



Application:
For installation in the ground, indoors, cable trunking and outdoors if subsequent mechanical damage is likely, for urban net-works, household feeder and street lighting.

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

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

Standard Packing

1.5 - 240 sqmm supplied in wooden drum @ 1000 meters

300 - 500 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
1.5 / 1.5	10.0	130
2.5 / 2.5	11.0	155
4 / 4	12.0	200
6 / 6	13.0	245
10 / 10	13.5	335
16 / 16	15.0	465
25 / 16	16.5	585
35 / 16	17.5	695
50 / 25	20.0	935
70 / 35	22.0	1,245
95 / 50	24.0	1,675
120 / 70	26.0	2,110
150 / 70	28.0	2,415
185 / 95	31.0	3,030
240 / 120	34.0	3,885
300 / 150	38.0	4,815
400 / 185	42.0	6,095
500 / 240	47.0	7,725

Electrical Data

Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)	Insulation Resistance at 20 °C Min. (M.Ω.km)	(mH/km)	in air Max. (A)	in ground Max. (A)	
1.5 / 1.5	12.1	14.478	50	0.455	26	33	0.17
2.5 / 2.5	7.41	8.866	50	0.514	35	45	0.28
4 / 4	4.61	5.516	50	0.485	46	58	0.45
6 / 6	3.08	3.685	50	0.457	58	74	0.68
10 / 10	1.83	2.190	50	0.420	80	98	1.13
16 / 16	1.15	1.376	40	0.399	105	129	1.81
25 / 16	0.727	0.870	40	0.373	140	169	2.82
35 / 16	0.524	0.627	40	0.355	175	210	3.95
50 / 25	0.387	0.463	30	0.345	215	250	5.65
70 / 35	0.268	0.321	30	0.329	270	310	7.91
95 / 50	0.193	0.232	30	0.322	335	375	10.7
120 / 70	0.153	0.184	30	0.316	390	425	13.56
150 / 70	0.124	0.150	20	0.310	445	480	16.94
185 / 95	0.0991	0.121	20	0.305	510	550	20.9
240 / 120	0.0754	0.093	20	0.298	620	640	27.11
300 / 150	0.0601	0.075	20	0.294	710	730	33.89
400 / 185	0.0470	0.061	20	0.293	850	855	40.06
500 / 240	0.0366	0.049	20	0.289	1000	990	50.08

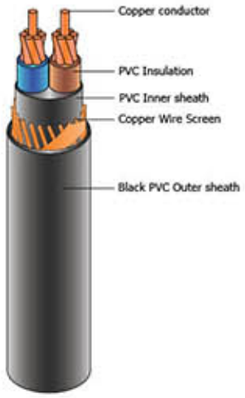
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYCY 2 x (1.5 - 300) mm² 0.6/1 kV

Cu / PVC / CWS / PVC

(Copper Conductor, PVC Insulated, Copper Wire Screen, PVC Sheathed)
Standard Specification : SPLN 43 - 4 & IEC 60502 - 1

PT VOKSEL ELECTRIC Tbk.



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

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

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 non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape

Standard Packing

1.5 - 120 sqmm supplied in wooden drum @ 1000 meters

150 - 300 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
1.5 / 1.5	13.5	220
2.5 / 2.5	14.5	265
4 / 4	16.5	365
6 / 6	17.5	445
10 / 10	19.5	615
16 / 16	22.0	845
25 / 16	25.0	1,150
35 / 16	27.5	1,425
50 / 25	31.5	1,895
70 / 35	35.5	2,565
95 / 50	41.0	3,505
120 / 70	44.5	4,350
150 / 70	48.5	5,155
185 / 95	54.5	6,490
240 / 120	61.0	8,355
300 / 150	67.5	10,345

Electrical Data

Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)	Insulation Resistance at 20 °C Min. (M.Ω.km)	(mH/km)	in air Max. (A)	in ground Max. (A)	
1.5 / 1.5	12.1	14.478	50	0.328	21	27	0.17
2.5 / 2.5	7.41	8.866	50	0.304	29	36	0.28
4 / 4	4.61	5.516	50	0.303	38	47	0.45
6 / 6	3.08	3.685	50	0.288	48	59	0.68
10 / 10	1.83	2.190	50	0.269	66	78	1.13
16 / 16	1.15	1.376	40	0.255	90	102	1.81
25 / 16	0.727	0.870	40	0.255	120	134	2.82
35 / 16	0.524	0.627	40	0.246	150	180	3.95
50 / 25	0.387	0.464	30	0.247	180	210	5.65
70 / 35	0.268	0.321	30	0.238	230	260	7.91
95 / 50	0.193	0.232	30	0.238	280	315	10.7
120 / 70	0.153	0.184	30	0.233	320	320	13.56
150 / 70	0.124	0.150	20	0.233	375	355	16.94
185 / 95	0.0991	0.121	20	0.233	430	409	20.9
240 / 120	0.0754	0.093	20	0.232	510	472	27.11
300 / 150	0.0601	0.075	20	0.231	590	525	33.89

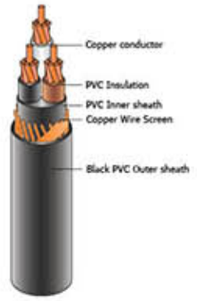
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYCY 3 x (1.5 - 300) mm² 0.6/1 kV

Cu / PVC / CWS / PVC

(Copper Conductor, PVC Insulated, Copper Wire Screen, PVC Sheathed)
Standard Specification : SPLN 43 - 4 & IEC 60502 - 1

PT VOKSEL ELECTRIC Tbk.



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

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

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 non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape

Standard Packing

1.5 - 95 sqmm supplied in wooden drum @ 1000 meters

120 - 300 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
1.5 / 1.5	14.0	245
2.5 / 2.5	15.0	305
4 / 4	17.0	420
6 / 6	18.5	520
10 / 10	20.5	735
16 / 16	23.0	1,015
25 / 16	27.0	1,405
35 / 16	29.0	1,775
50 / 25	33.5	2,370
70 / 35	38.0	3,240
95 / 50	44.0	4,425
120 / 70	47.5	5,480
150 / 70	52.5	6,590
185 / 95	58.0	8,225
240 / 120	65.5	10,675
300 / 150	73.0	13,255

Electrical Data

Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)	Insulation Resistance at 20 °C Min. (M.Ω.km)	(mH/km)	in air Max. (A)	in ground Max. (A)	
1.5 / 1.5	12.1	14.478	50	0.328	18	24	0.17
2.5 / 2.5	7.41	8.866	50	0.304	25	32	0.28
4 / 4	4.61	5.516	50	0.303	34	41	0.45
6 / 6	3.08	3.685	50	0.288	44	52	0.68
10 / 10	1.83	2.190	50	0.269	60	69	1.13
16 / 16	1.15	1.376	40	0.255	80	89	1.81
25 / 16	0.727	0.870	40	0.255	105	116	2.82
35 / 16	0.524	0.627	40	0.246	130	138	3.95
50 / 25	0.387	0.464	30	0.247	160	165	5.65
70 / 35	0.268	0.321	30	0.238	200	205	7.91
95 / 50	0.193	0.232	30	0.238	245	245	10.7
120 / 70	0.153	0.184	30	0.233	285	285	13.56
150 / 70	0.124	0.150	20	0.233	325	315	16.94
185 / 95	0.0991	0.121	20	0.233	370	355	20.9
240 / 120	0.0754	0.093	20	0.232	435	415	27.11
300 / 150	0.0601	0.075	20	0.231	500	465	33.89

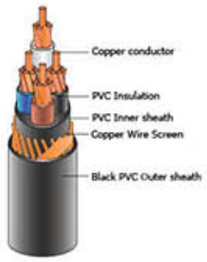
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYCY 4 x (1.5 - 300) mm² 0.6/1 kV

Cu / PVC / CWS / PVC

(Copper Conductor, PVC Insulated, Copper Wire Screen, PVC Sheathed)
Standard Specification : SPLN 43 - 4 & IEC 60502 - 1

PT VOKSEL ELECTRIC Tbk.



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

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

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 non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape

50 - 300 sqmm supplied in non compacted circular stranded (rm) or compacted circular stranded (cm) or sector shaped stranded (sm) conductor

Standard Packing

1.5 - 70 sqmm supplied in wooden drum @ 1000 meters

95 - 300 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
1.5 / 1.5	15.0	290
2.5 / 2.5	16.0	365
4 / 4	18.5	510
6 / 6	19.5	635
10 / 10	22.0	900
16 / 16	25.0	1,255
25 / 16	29.0	1,770
35 / 16	31.5	2,245
50 / 25	34.5	2,760
70 / 35	38.5	3,725
95 / 50	44.5	5,085
120 / 70	48.0	6,330
150 / 70	53.5	7,585
185 / 95	59.0	9,500
240 / 120	66.0	12,260
300 / 150	73.0	15,230

Electrical Data

Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)	Insulation Resistance at 20 °C Min. (M.Ω.km)	(mH/km)	in air Max. (A)	in ground Max. (A)	
1.5 / 1.5	12.1	14.478	50	0.328	18	24	0.17
2.5 / 2.5	7.41	8.866	50	0.304	25	32	0.28
4 / 4	4.61	5.516	50	0.303	34	41	0.45
6 / 6	3.08	3.685	50	0.288	44	52	0.68
10 / 10	1.83	2.190	50	0.269	60	69	1.13
16 / 16	1.15	1.376	40	0.255	80	89	1.81
25 / 16	0.727	0.870	40	0.255	105	116	2.82
35 / 16	0.524	0.627	40	0.246	130	138	3.95
50 / 25	0.387	0.464	30	0.247	160	165	5.65
70 / 35	0.268	0.321	30	0.238	200	205	7.91
95 / 50	0.193	0.232	30	0.238	245	245	10.7
120 / 70	0.153	0.184	30	0.233	285	285	13.56
150 / 70	0.124	0.150	20	0.233	325	315	16.94
185 / 95	0.0991	0.121	20	0.233	370	355	20.9
240 / 120	0.0754	0.093	20	0.232	435	415	27.11
300 / 150	0.0601	0.075	20	0.231	500	465	33.89

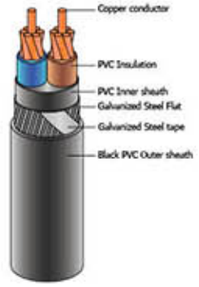
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYFGbY 2 x (25 - 300) mm² 0.6/1 kV

Cu / PVC / SFA / PVC

(Copper Conductor, PVC Insulated, Galvanized Steel Flat Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 1, SPLN 43 - 2 & SNI IEC 60502 - 1

PT VOKSEL ELECTRIC Tbk.



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

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

Note:

Conductor Shape

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

Standard Packing

25 - 95 sqmm supplied in wooden drum @ 1000 meters

120 - 300 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
25	25.5	1,500
35	28.0	1,830
50	32.0	2,345
70	36.0	3,060
95	40.5	3,975
120	44.0	4,730
150	48.5	5,720
185	53.5	6,930
240	60.0	8,790
300	66.0	10,705

Electrical Data

Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)	Insulation Resistance at 20 °C Min. (M.Ω.km)	(mH/km)	in air Max. (A)	in ground Max. (A)	
25	0.727	0.870	40	0.255	120	134	2.82
35	0.524	0.627	40	0.246	150	160	3.95
50	0.387	0.464	30	0.247	180	187	5.65
70	0.268	0.321	30	0.238	230	230	7.91
95	0.193	0.232	30	0.238	275	280	10.7
120	0.153	0.184	30	0.233	320	320	13.56
150	0.124	0.150	20	0.233	375	355	16.94
185	0.0991	0.121	20	0.233	430	409	20.9
240	0.0754	0.093	20	0.232	510	472	27.11
300	0.0601	0.075	20	0.231	590	525	33.89

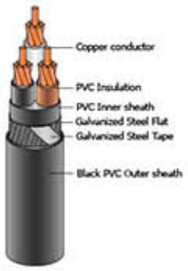
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYFGbY 3 x (25 - 400) mm² 0.6/1 kV

Cu / PVC / SFA / PVC

(Copper Conductor, PVC Insulated, Galvanized Steel Flat Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 1, SPLN 43 - 2 & SNI IEC 60502 - 1

PT VOKSEL ELECTRIC Tbk.



Special Features on Request:

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

Note:

Conductor Shape

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

Standard Packing

25 - 70 sqmm supplied in wooden drum @ 1000 meters

95 - 400 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Application:

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

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
25	27.0	1,800
35	29.5	2,235
50	34.0	2,830
70	38.0	3,725
95	43.0	4,925
120	47.0	5,895
150	52.0	7,145
185	57.0	8,705
240	64.0	11,155
300	71.0	13,575
400	79.0	17,315

Electrical Data

Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)	Insulation Resistance at 20 °C Min. (M.Ω.km)	(mH/km)	in air Max. (A)	in ground Max. (A)	
25	0.727	0.870	40	0.255	105	116	2.82
35	0.524	0.627	40	0.246	130	138	3.95
50	0.387	0.464	30	0.247	160	165	5.65
70	0.268	0.321	30	0.238	200	205	7.91
95	0.193	0.232	30	0.238	245	245	10.7
120	0.153	0.184	30	0.233	285	280	13.56
150	0.124	0.150	20	0.233	325	315	16.94
185	0.0991	0.121	20	0.233	370	355	20.9
240	0.0754	0.093	20	0.232	435	415	27.11
300	0.0601	0.075	20	0.231	500	465	33.89
400	0.0470	0.060	20	0.229	600	535	40.06

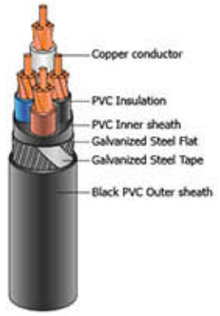
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYFGbY 4 x (16 - 400) mm² 0.6/1 kV

Cu / PVC / SFA / PVC

(Copper Conductor, PVC Insulated, Galvanized Steel Flat Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 1, SPLN D3.010-3:2014 & SNI IEC 60502 - 1

PT VOKSEL ELECTRIC Tbk.



Special Features on Request:

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

Note:

Conductor Shape

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

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

50 - 400 sqmm supplied in non compacted circular stranded (rm) or compacted circular stranded (cm) or sector shaped stranded (sm) conductor

Standard Packing

16 - 50 sqmm supplied in wooden drum @ 1000 meters

70 - 400 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Application:

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

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
16	25.0	1,585
25	29.0	2,150
35	32.0	2,704
50	34.5	3,175
70	38.5	4,135
95	44.0	5,455
120	48.0	6,610
150	53.0	7,965
185	58.5	9,830
240	65.0	12,435
300	71.0	15,240
400	80.0	19,310

Electrical Data

Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)	Insulation Resistance at 20 °C Min. (M.Ω.km)	(mH/km)	in air Max. (A)	in ground Max. (A)	
16	1.15	1.376	40	0.255	80	89	1.81
25	0.727	0.870	40	0.255	105	116	2.82
35	0.524	0.627	40	0.246	130	138	3.95
50	0.387	0.464	30	0.247	160	165	5.65
70	0.268	0.321	30	0.238	200	205	7.91
95	0.193	0.232	30	0.238	245	245	10.7
120	0.153	0.184	30	0.233	285	280	13.56
150	0.124	0.150	20	0.233	325	315	16.94
185	0.0991	0.121	20	0.233	370	355	20.9
240	0.0754	0.093	20	0.232	435	415	27.11
300	0.0601	0.075	20	0.231	500	465	33.89
400	0.0470	0.060	20	0.229	600	535	40.06

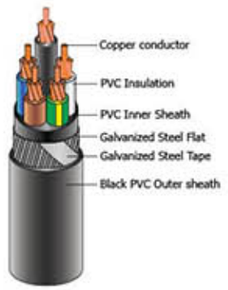
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYFGbY 5 x (16 - 50) mm² 0.6/1 kV

Cu / PVC / SFA / PVC

(Copper Conductor, PVC Insulated, Galvanized Steel Flat Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 1, SPLN 43 - 2 & SNI IEC 60502 - 1

PT VOKSEL ELECTRIC Tbk.



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

Note:

Conductor Shape

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

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

Standard Packing

16 - 50 sqmm supplied in wooden drum @ 1000 meters

Length Tolerance per drum ± 2%

Application:

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

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
16	27.0	1,835
25	32.0	2,585
35	35.5	3,285
50	40.5	4,250

Electrical Data

Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)	Insulation Resistance at 20 °C Min. (M.Ω.km)	(mH/km)	in air Max. (A)	in ground Max. (A)	
16	1.15	1.376	40	0.255	80	89	1.81
25	0.727	0.870	40	0.255	105	116	2.82
35	0.524	0.627	40	0.246	130	138	3.95
50	0.387	0.464	30	0.247	160	165	5.65

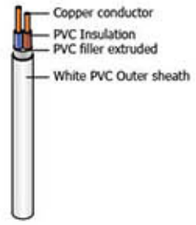
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYM 2 x (1.5 - 35) mm² 300 /500 V

Cu / PVC / PVC

(Copper Conductor, PVC Insulated, PVC Sheathed)
Standard Specification : SPLN 42 - 2, SNI 04 - 6629.4 & IEC 60227 - 3

PT VOKSEL ELECTRIC Tbk.



Special Features on Request:
- Fire Resistance
- Oil Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category

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

Standard Packing

1.5 - 4 sqmm supplied in coil @ 100 meters or in wooden drum @ 1000/2000 meters

6 - 35 sqmm supplied in wooden drum @ 1000 meters

Length Tolerance per drum ± 2%

Application:

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

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
1.5	9.0	116
2.5	10.5	157
4	11.5	205
6	12.5	265
10	16.0	425
16	19.0	640
25	23.0	965
35	25.5	1,290

Electrical Data

Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *	Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	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)	(mH/km)	in air Max. (A)	
1.5	12.1	14.478	0.0100	0.329	19	0.17
2.5	7.41	8.866	0.0900	0.318	25	0.28
4	4.61	5.516	0.0077	0.297	34	0.45
6	3.08	3.685	0.0065	0.281	44	0.68
10	1.83	2.190	0.0065	0.278	61	1.13
16	1.15	1.376	0.0052	0.255	82	1.81
25	0.727	0.870	0.0050	0.252	108	2.82
35	0.524	0.627	0.0044	0.244	134	3.45

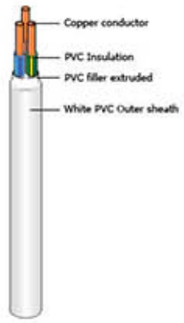
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYM 3 x (1.5 - 35) mm² 300 /500 V

Cu / PVC / PVC

(Copper Conductor, PVC Insulated, PVC Sheathed)
Standard Specification : SPLN 42 - 2, SNI 04 - 6629.4 & IEC 60227 - 3

PT VOKSEL ELECTRIC Tbk.



Special Features on Request:
- Fire Resistance
- Oil Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category

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

Standard Packing

1.5 - 4 sqmm supplied in coil @ 100 meters or in wooden drum @ 1000/2000 meters

6 - 35 sqmm supplied in wooden drum @ 1000 meters

Length Tolerance per drum ± 2%

Application:
For building wire installed in donduit in dry location and interwiring in swich board and control panel, inherently flame retardant in compliance with IEC 60332 - 1.

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
1.5	9.5	135
2.5	11.0	185
4	12.0	250
6	13.5	335
10	16.5	530
16	20.0	820
25	24.0	1,235
35	27.0	1,630

Electrical Data

Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *	Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	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)	(mH/km)	in air Max. (A)	
1.5	12.1	14.478	0.0100	0.329	19	0.17
2.5	7.41	8.866	0.0900	0.318	25	0.28
4	4.61	5.516	0.0085	0.297	34	0.45
6	3.08	3.685	0.0065	0.281	44	0.68
10	1.83	2.190	0.0065	0.278	61	1.13
16	1.15	1.376	0.0052	0.255	82	1.81
25	0.727	0.870	0.0050	0.252	108	2.82
35	0.524	0.627	0.0044	0.244	134	3.45

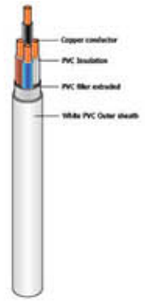
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYM 4 x (1.5 - 35) mm² 300 /500 V

Cu / PVC / PVC

(Copper Conductor, PVC Insulated, PVC Sheathed)
Standard Specification : SPLN 42 - 2, SNI 04 - 6629.4 & IEC 60227 - 3

PT VOKSEL ELECTRIC Tbk.



Special Features on Request:
- Fire Resistance
- Oil Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category

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 shap

Standard Packing

1.5 - 2.5 sqmm supplied in coil @ 100 meters or in wooden drum @ 1000/2000 meters

4 - 35 sqmm supplied in wooden drum @ 1000 meters

Length Tolerance per drum ± 2%

Application:
For building wire installed in donduit in dry location and interwiring in swich board and control panel, inherently flame retardant in compliance with IEC 60332 - 1.

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
1.5	10.5	165
2.5	11.5	225
4	13.0	315
6	14.5	410
10	18.0	655
16	22.0	1,020
25	27.0	1,570
35	29.5	2,045

Electrical Data

Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *	Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	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)	(mH/km)	in air Max. (A)	
1.5	12.1	14.478	0.0100	0.329	19	0.17
2.5	7.41	8.866	0.0900	0.318	25	0.28
4	4.61	5.516	0.0077	0.297	34	0.45
6	3.08	3.685	0.0065	0.281	44	0.68
10	1.83	2.190	0.0065	0.278	61	1.13
16	1.15	1.376	0.0052	0.255	82	1.81
25	0.727	0.870	0.0050	0.252	108	2.82
35	0.524	0.627	0.0044	0.244	134	3.45

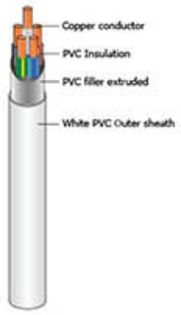
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYM 5 x (1.5 - 35) mm² 300 /500 V

Cu / PVC / PVC

(Copper Conductor, PVC Insulated, PVC Sheathed)
Standard Specification : SPLN 42 - 2, SNI 04 - 6629.4 & IEC 60227 - 3

PT VOKSEL ELECTRIC Tbk.



Special Features on Request:
- Fire Resistance
- Oil Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category

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 shap

Standard Packing

1.5 - 2.5 sqmm supplied in coil @ 100 meters or in wooden drum @ 1000/2000 meters

4 - 35 sqmm supplied in wooden drum @ 1000 meters

Length Tolerance per drum ± 2%

Application:

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

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
1.5	11.0	195
2.5	12.5	275
4	15.0	395
6	16.0	515
10	19.5	800
16	24.5	1,270
25	29.5	1,930
35	33.0	2,550

Electrical Data

Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *	Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	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)	(mH/km)	in air Max. (A)	
1.5	12.1	14.478	0.0100	0.329	19	0.17
2.5	7.41	8.866	0.0900	0.318	25	0.28
4	4.61	5.516	0.0077	0.297	34	0.45
6	3.08	3.685	0.0065	0.281	44	0.68
10	1.83	2.190	0.0065	0.278	61	1.13
16	1.15	1.376	0.0052	0.255	82	1.81
25	0.727	0.870	0.0050	0.252	108	2.82
35	0.524	0.627	0.0044	0.244	134	3.45

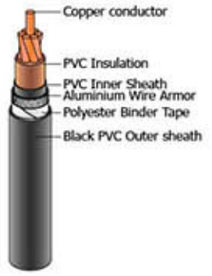
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYR(AL)Y 1 x (10 - 500) mm² 0.6/1 kV

Cu / PVC / AWA / PVC

(Copper Conductor, PVC Insulated, Aluminium Wire Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 1 & SPLN 43 - 2

PT VOKSEL ELECTRIC Tbk.



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

Note:

Conductor Shape

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

25 - 500 sqmm supplied in non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape

Standard Packing

10 - 300 sqmm supplied in wooden drum @ 1000 meters

400 - 500 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Application:

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

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
10	13.5	285
16	14.5	365
25	16.5	495
35	17.5	610
50	19.0	765
70	21.0	995
95	23.5	1,300
120	26.5	1,680
150	28.5	2,000
185	31.0	2,415
240	34.0	3,070
300	37.0	3,745
400	42.0	4,835
500	46.0	5,970

Electrical Data

Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)	Insulation Resistance at 20 °C Min. (M.Ω.km)	(mH/km)	in air Max. (A)	in ground Max. (A)	
10	1.83	2.190	50	0.460	80	98	1.13
16	1.15	1.376	40	0.429	105	129	1.81
25	0.727	0.870	40	0.401	140	169	2.82
35	0.524	0.627	40	0.382	175	210	3.95
50	0.387	0.463	30	0.364	215	250	5.65
70	0.268	0.321	30	0.345	270	310	7.91
95	0.193	0.232	30	0.333	335	375	10.7
120	0.153	0.184	30	0.325	390	425	13.56
150	0.124	0.150	20	0.318	445	480	16.94
185	0.0991	0.120	20	0.310	510	550	20.90
240	0.0754	0.093	20	0.302	620	640	27.11
300	0.0601	0.075	20	0.296	710	730	33.89
400	0.0470	0.060	20	0.296	850	855	40.06
500	0.0366	0.049	20	0.289	1000	990	50.08

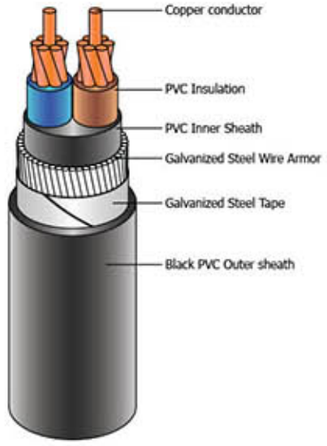
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYRGbY 2 x (10 - 300) mm² 0.6/1 kV

Cu / PVC / SWA / PVC

(Copper Conductor, PVC Insulated, Galvanized Steel Wire Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 1 & SPLN 43 - 2

PT VOKSEL ELECTRIC Tbk.



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

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

Note:

Conductor Shape

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 non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape

Standard Packing

10 - 70 sqmm supplied in wooden drum @ 1000 meters

95 - 300 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
10	20.0	850
16	22.0	1,070
25	27.0	1,775
35	29.5	2,135
50	33.0	2,650
70	37.5	3,580
95	43.0	4,695
120	46.5	5,500
150	52.0	6,920
185	57.0	8,345
240	63.5	10,355
300	69.5	12,455

Electrical Data

Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)	Insulation Resistance at 20 °C Min. (M.Ω.km)	(mH/km)	in air Max. (A)	in ground Max. (A)	
10	1.83	2.190	50	0.269	66	78	1.13
16	1.15	1.376	40	0.255	90	102	1.81
25	0.727	0.870	40	0.255	120	134	2.82
35	0.524	0.627	40	0.246	150	160	3.95
50	0.387	0.464	30	0.247	180	187	5.65
70	0.268	0.321	30	0.238	230	230	7.91
95	0.193	0.232	30	0.238	275	280	10.7
120	0.153	0.184	30	0.233	320	320	13.56
150	0.124	0.150	20	0.233	375	355	16.94
185	0.0991	0.121	20	0.233	430	409	20.9
240	0.0754	0.093	20	0.232	510	472	27.11
300	0.0601	0.075	20	0.231	590	525	33.89

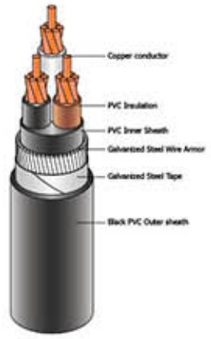
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYRGbY 3 x (10 - 400) mm² 0.6/1 kV

Cu / PVC / SWA / PVC

(Copper Conductor, PVC Insulated, Galvanized Steel Wire Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 1 & SPLN 43 - 2

PT VOKSEL ELECTRIC Tbk.



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

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

Note:

Conductor Shape

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 non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape

Standard Packing

10 - 70 sqmm supplied in wooden drum @ 1000 meters

95 - 400 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
10	21.0	975
16	23.5	1,255
25	28.5	2,065
35	31.0	2,525
50	35.0	3,195
70	40.0	4,370
95	46.0	5,675
120	49.5	6,720
150	55.0	8,505
185	61.0	10,205
240	69.0	13,555
300	76.0	16,235
400	84.0	20,075

Electrical Data

Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)	Insulation Resistance at 20 °C Min. (M.Ω.km)	(mH/km)	in air Max. (A)	in ground Max. (A)	
10	1.83	2.190	50	0.269	60	69	1.13
16	1.15	1.376	40	0.255	80	89	1.81
25	0.727	0.870	40	0.255	105	116	2.82
35	0.524	0.627	40	0.246	130	138	3.95
50	0.387	0.464	30	0.247	160	165	5.65
70	0.268	0.321	30	0.238	200	205	7.91
95	0.193	0.232	30	0.238	245	245	10.7
120	0.153	0.184	30	0.233	285	285	13.56
150	0.124	0.150	20	0.233	325	315	16.94
185	0.0991	0.121	20	0.233	370	355	20.9
240	0.0754	0.093	20	0.232	435	415	27.11
300	0.0601	0.075	20	0.231	500	465	33.89
400	0.0470	0.060	20	0.229	600	535	40.06

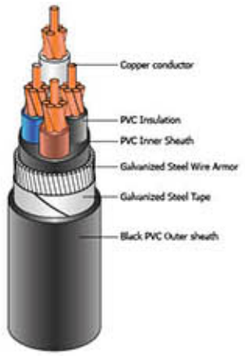
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYRGbY 4 x (10 - 400) mm² 0.6/1 kV

Cu / PVC / SWA / PVC

(Copper Conductor, PVC Insulated, Galvanized Steel Wire Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 1 & SPLN D3.010-3:2014

PT VOKSEL ELECTRIC Tbk.



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

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

Note:

Conductor Shape

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 non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape

50 - 400 sqmm supplied in non compacted circular stranded (rm) or compacted circular stranded (cm) or sector shaped stranded (sm) conductor

Standard Packing

10 - 50 sqmm supplied in wooden drum @ 1000 meters

70 - 400 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
10	23.0	1,150
16	27.0	1,805
25	31.0	2,455
35	34.0	3,055
50	37.0	3,765
70	41.0	4,790
95	48.0	6,605
120	51.0	7,855
150	57.0	9,345
185	62.0	11,255
240	70.0	14,840
300	76.0	17,885
400	85.0	22,325

Electrical Data

Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)	Insulation Resistance at 20 °C Min. (M.Ω.km)	(mH/km)	in air Max. (A)	in ground Max. (A)	
10	1.83	2.190	50	0.269	60	69	1.13
16	1.15	1.376	40	0.255	80	89	1.81
25	0.727	0.870	40	0.255	105	116	2.82
35	0.524	0.627	40	0.246	130	138	3.95
50	0.387	0.464	30	0.247	160	165	5.65
70	0.268	0.321	30	0.238	200	205	7.91
95	0.193	0.232	30	0.238	245	245	10.7
120	0.153	0.184	30	0.233	285	285	13.56
150	0.124	0.150	20	0.233	325	315	16.94
185	0.0991	0.121	20	0.233	370	355	20.9
240	0.0754	0.093	20	0.232	435	415	27.11
300	0.0601	0.075	20	0.231	500	465	33.89
400	0.0470	0.060	20	0.229	600	535	40.06

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

NYSY 1 x (1.5 - 500) mm² 0.6/1 kV

Cu / PVC / CTS / PVC

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

PT VOKSEL ELECTRIC Tbk.

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

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

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

Standard Packing

1.5 - 300 sqmm supplied in wooden drum @ 1000 meters

400 - 500 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
1.5	9.0	120
2.5	9.5	140
4	10.5	175
6	11.0	205
10	12.0	260
16	13.0	335
25	15.0	460
35	16.0	575
50	17.5	725
70	19.5	950
95	22.0	1,260
120	23.5	1,520
150	25.5	1,830
185	28.0	2,235
240	31.0	2,865
300	34.5	3,550
400	38.0	4,490
500	42.0	5,605

Electrical Data

Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)	Insulation Resistance at 20 °C Min. (M.Ω.km)	(mH/km)	in air Max. (A)	in ground Max. (A)	
1.5	12.1	14.478	50	0.531	26	33	0.17
2.5	7.41	8.866	50	0.491	35	45	0.28
4	4.61	5.516	50	0.464	46	58	0.45
6	3.08	3.685	50	0.436	58	74	0.68
10	1.83	2.190	50	0.401	80	98	1.13
16	1.15	1.376	40	0.374	105	129	1.81
25	0.727	0.870	40	0.352	140	169	2.82
35	0.524	0.627	40	0.336	175	210	3.95
50	0.387	0.463	30	0.323	215	250	5.65
70	0.268	0.321	30	0.307	270	310	7.91
95	0.193	0.232	30	0.298	335	375	10.7
120	0.153	0.184	30	0.289	390	425	13.56
150	0.124	0.150	20	0.285	445	480	16.94
185	0.0991	0.12	20	0.280	510	550	20.9
240	0.0754	0.093	20	0.273	620	640	27.11
300	0.0601	0.075	20	0.270	710	730	33.89
400	0.0470	0.060	20	0.268	850	855	40.06
500	0.0366	0.049	20	0.263	1000	990	50.08

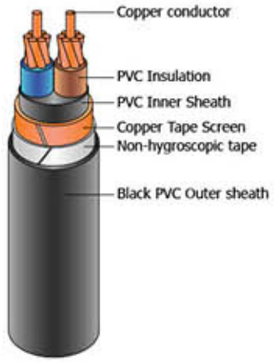
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYSY 2 x (1.5 - 300) mm² 0.6/1 kV

Cu / PVC / CTS / PVC

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

PT VOKSEL ELECTRIC Tbk.



Application:

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

Special Features on Request:

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

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 non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape

Standard Packing

1.5 - 120 sqmm supplied in wooden drum @ 1000 meters

150 - 300 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
1.5	12.5	235
2.5	13.0	280
4	15.0	375
6	16.0	445
10	18.0	590
16	20.0	780
25	23.5	1,115
35	26.0	1,405
50	30.0	1,830
70	34.0	2,465
95	38.5	3,310
120	42.5	4,015
150	47.0	4,935
185	52.0	6,055
240	58.5	7,855
300	64.5	9,625

Electrical Data

Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)	Insulation Resistance at 20 °C Min. (M.Ω.km)	(mH/km)	in air Max. (A)	in ground Max. (A)	
1.5	12.1	14.478	50	0.328	21	27	0.17
2.5	7.41	8.866	50	0.304	29	36	0.28
4	4.61	5.516	50	0.303	38	47	0.45
6	3.08	3.685	50	0.288	48	59	0.68
10	1.83	2.190	50	0.269	66	78	1.13
16	1.15	1.376	40	0.255	90	102	1.81
25	0.727	0.870	40	0.255	120	134	2.82
35	0.524	0.627	40	0.246	150	180	3.95
50	0.387	0.464	30	0.247	180	210	5.65
70	0.268	0.321	30	0.238	230	260	7.91
95	0.193	0.232	30	0.238	280	315	10.7
120	0.153	0.184	30	0.233	320	320	13.56
150	0.124	0.150	20	0.233	375	355	16.94
185	0.0991	0.121	20	0.233	430	409	20.9
240	0.0754	0.093	20	0.232	510	472	27.11
300	0.0601	0.075	20	0.231	590	525	33.89

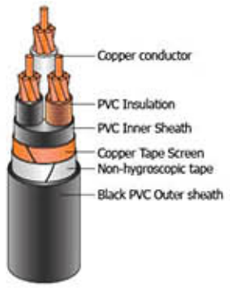
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYSY 3 x (1.5 - 300) mm² 0.6/1 kV

Cu / PVC / CTS / PVC

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

PT VOKSEL ELECTRIC Tbk.



Application:

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

Special Features on Request:

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

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 non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape

Standard Packing

1.5 - 95 sqmm supplied in wooden drum @ 1000 meters

120 - 300 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
1.5	13.0	260
2.5	14.0	315
4	16.0	430
6	17.0	520
10	19.0	705
16	21.5	945
25	25.0	1,365
35	27.5	1,750
50	32.0	2,330
70	36.0	3,115
95	41.5	4,205
120	45.5	5,180
150	50.0	6,305
185	56.0	7,825
240	63.0	10,090
300	69.0	12,400

Electrical Data

Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)	Insulation Resistance at 20 °C Min. (M.Ω.km)	(mH/km)	in air Max. (A)	in ground Max. (A)	
1.5	12.1	14.478	50	0.328	18	24	0.17
2.5	7.41	8.866	50	0.304	25	32	0.28
4	4.61	5.516	50	0.303	34	41	0.45
6	3.08	3.685	50	0.288	44	52	0.68
10	1.83	2.190	50	0.269	60	69	1.13
16	1.15	1.376	40	0.255	80	89	1.81
25	0.727	0.870	40	0.255	105	116	2.82
35	0.524	0.627	40	0.246	130	138	3.95
50	0.387	0.464	30	0.247	160	165	5.65
70	0.268	0.321	30	0.238	200	205	7.91
95	0.193	0.232	30	0.238	245	245	10.7
120	0.153	0.184	30	0.233	285	285	13.56
150	0.124	0.150	20	0.233	325	315	16.94
185	0.0991	0.121	20	0.233	370	355	20.9
240	0.0754	0.093	20	0.232	435	415	27.11
300	0.0601	0.075	20	0.231	500	465	33.89

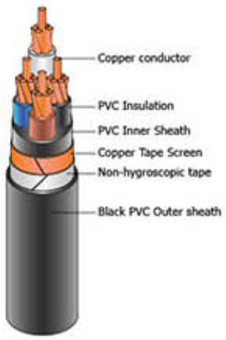
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYSY 4 x (1.5 - 300) mm² 0.6/1 kV

Cu / PVC / CTS / PVC

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

PT VOKSEL ELECTRIC Tbk.



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

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

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 non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape

50 - 400 sqmm supplied in non compacted circular stranded (rm) or compacted circular stranded (cm) or sector shaped stranded (sm) conductor

Standard Packing

1.5 - 70 sqmm supplied in wooden drum @ 1000 meters

95 - 300 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
1.5	13.5	300
2.5	15.0	365
4	17.0	505
6	18.5	620
10	21.0	855
16	23.5	1,160
25	27.5	1,690
35	30.5	2,190
50	32.0	2,780
70	36.5	3,725
95	42.0	5,060
120	45.5	6,215
150	51.0	7,570
185	56.0	9,445
240	62.5	12,105
300	68.5	14,990

Electrical Data

Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)	Insulation Resistance at 20 °C Min. (M.Ω.km)	(mH/km)	in air Max. (A)	in ground Max. (A)	
1.5	12.1	14.478	50	0.328	18	24	0.17
2.5	7.41	8.866	50	0.304	25	32	0.28
4	4.61	5.516	50	0.303	34	41	0.45
6	3.08	3.685	50	0.288	44	52	0.68
10	1.83	2.190	50	0.269	60	69	1.13
16	1.15	1.376	40	0.255	80	89	1.81
25	0.727	0.870	40	0.255	105	116	2.82
35	0.524	0.627	40	0.246	130	138	3.95
50	0.387	0.464	30	0.247	160	165	5.65
70	0.268	0.321	30	0.238	200	205	7.91
95	0.193	0.232	30	0.238	245	245	10.7
120	0.153	0.184	30	0.233	285	285	13.56
150	0.124	0.150	20	0.233	325	315	16.94
185	0.0991	0.121	20	0.233	370	355	20.9
240	0.0754	0.093	20	0.232	435	415	27.11
300	0.0601	0.075	20	0.231	500	465	33.89

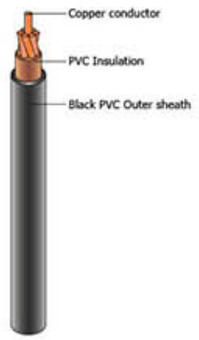
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYY 1 x (1.5 - 500) mm² 0.6/1 kV

Cu / PVC / PVC

(Copper Conductor, PVC Insulated, PVC Sheathed)
Standard Specification : SPLN D3.010-2:2014 & SNI IEC 60502 - 1 : 2009

PT VOKSEL ELECTRIC Tbk.



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

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

Standard Packing

1.5 - 10 sqmm supplied in coil @ 100 meters

16 - 300 sqmm supplied in wooden drum @ 1000 meters

400 - 500 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
1.5	6.0	53
2.5	6.5	65
4	7.5	91
6	8.0	114
10	9.0	162
16	10.0	225
25	12.0	334
35	13.0	437
50	14.5	571
70	16.5	779
95	19.0	1,069
120	20.5	1,315
150	23.0	1,615
185	25.0	2,005
240	28.5	2,610
300	31.5	3,230
400	35.0	4,130
500	39.0	5,200

Electrical Data

Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)	Insulation Resistance at 20 °C Min. (M.Ω.km)	(mH/km)	in air Max. (A)	in ground Max. (A)	
1.5	12.1	14.478	50	0.459	26	33	0.17
2.5	7.41	8.866	50	0.423	35	45	0.28
4	4.61	5.516	50	0.404	46	58	0.45
6	3.08	3.685	50	0.380	58	74	0.68
10	1.83	2.190	50	0.350	80	98	1.13
16	1.15	1.376	40	0.327	105	129	1.81
25	0.727	0.870	40	0.312	140	169	2.82
35	0.524	0.627	40	0.299	175	210	3.95
50	0.387	0.464	30	0.290	215	250	5.65
70	0.268	0.321	30	0.278	270	310	7.91
95	0.193	0.232	30	0.274	335	375	10.7
120	0.153	0.184	30	0.267	390	425	13.56
150	0.124	0.150	20	0.266	445	480	16.94
185	0.0991	0.121	20	0.264	510	550	20.9
240	0.0754	0.093	20	0.261	620	640	27.11
300	0.0601	0.075	20	0.258	710	730	33.89
400	0.0470	0.061	20	0.256	850	855	40.06
500	0.0366	0.049	20	0.252	1000	990	50.08

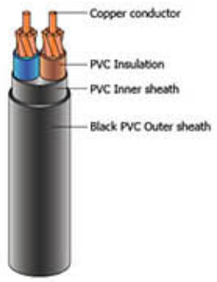
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYY 2 x (1.5 - 400) mm² 0.6/1 kV

Cu / PVC / PVC

(Copper Conductor, PVC Insulated, PVC Sheathed)
Standard Specification : SPLN 43 - 1, SNI IEC 60502 - 1 & IEC 60502 - 1

PT VOKSEL ELECTRIC Tbk.



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:

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

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

Standard Packing

1.5 - 120 sqmm supplied in wooden drum @ 1000 meters

150 - 300 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
1.5	12.5	200
2.5	13.0	240
4	15.0	330
6	16.0	397
10	18.0	535
16	20.0	715
25	23.5	1,032
35	26.0	1,315
50	29.0	1,715
70	33.0	2,295
95	38.0	3,140
120	41.5	3,825
150	45.5	4,665
185	51.0	5,820
240	57.5	7,520
300	63.5	9,295

Electrical Data

Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)	Insulation Resistance at 20 °C Min. (M.Ω.km)	(mH/km)	in air Max. (A)	in ground Max. (A)	
1.5	12.1	14.478	50	0.328	21	27	0.17
2.5	7.41	8.866	50	0.304	29	36	0.28
4	4.61	5.516	50	0.303	38	47	0.45
6	3.08	3.685	50	0.288	48	59	0.68
10	1.83	2.190	50	0.269	66	78	1.13
16	1.15	1.376	40	0.255	90	102	1.81
25	0.727	0.870	40	0.255	120	134	2.82
35	0.524	0.627	40	0.246	150	160	3.95
50	0.387	0.464	30	0.247	180	187	5.65
70	0.268	0.321	30	0.238	230	230	7.91
95	0.193	0.232	30	0.238	275	280	10.7
120	0.153	0.184	30	0.233	320	320	13.56
150	0.124	0.150	20	0.233	375	355	16.94
185	0.0991	0.121	20	0.233	430	409	20.9
240	0.0754	0.093	20	0.232	510	472	27.11
300	0.0601	0.075	20	0.231	590	525	33.89

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

NYY 3 x (1.5 - 400) mm² 0.6/1 kV

Cu / PVC / PVC

(Copper Conductor, PVC Insulated, PVC Sheathed)
Standard Specification : SPLN 43 - 1, SNI IEC 60502 - 1 & IEC 60502 - 1

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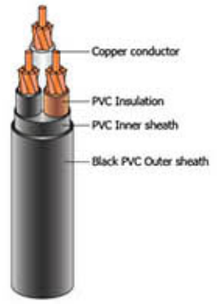

Application:

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:

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

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

Standard Packing

1.5 - 95 sqmm supplied in wooden drum @ 1000 meters

120 - 400 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
1.5	13.0	224
2.5	14.0	274
4	16.0	380
6	17.0	465
10	19.0	645
16	21.0	875
25	25.0	1,280
35	27.0	1,650
50	31.0	2,160
70	35.5	2,970
95	41.0	4,025
120	44.5	4,925
150	49.5	6,065
185	54.5	7,500
240	62.0	9,785
300	69.0	12,200
400	76.5	15,415

Electrical Data

Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)	Insulation Resistance at 20 °C Min. (M.Ω.km)	(mH/km)	in air Max. (A)	in ground Max. (A)	
1.5	12.1	14.478	50	0.328	18	24	0.17
2.5	7.41	8.866	50	0.304	25	32	0.28
4	4.61	5.516	50	0.303	34	41	0.45
6	3.08	3.685	50	0.288	44	52	0.68
10	1.83	2.190	50	0.269	60	69	1.13
16	1.15	1.376	40	0.255	80	89	1.81
25	0.727	0.870	40	0.255	105	116	2.82
35	0.524	0.627	40	0.246	130	138	3.95
50	0.387	0.464	30	0.247	160	165	5.65
70	0.268	0.321	30	0.238	200	205	7.91
95	0.193	0.232	30	0.238	245	245	10.7
120	0.153	0.184	30	0.233	285	285	13.56
150	0.124	0.150	20	0.233	325	315	16.94
185	0.0991	0.121	20	0.233	370	355	20.9
240	0.0754	0.093	20	0.232	435	415	27.11
300	0.0601	0.075	20	0.231	500	465	33.89
400	0.0470	0.060	20	0.229	600	535	40.06

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

NYY 4 x (1.5 - 500) mm² 0.6/1 kV

Cu / PVC / PVC

(Copper Conductor, PVC Insulated, PVC Sheathed)
Standard Specification : SPLN D3.010-2:2014, SNI IEC 60502 - 1 & IEC 60502 - 1

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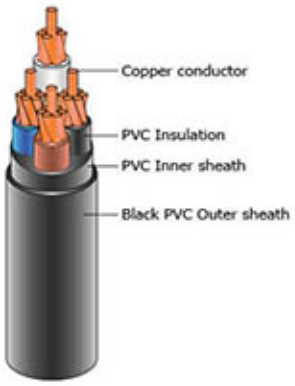

Application:

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:

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

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 non compacted circular stranded (rm) or compacted circular stranded (cm) conductor shape

50 - 400 sqmm supplied in non compacted circular stranded (rm) or compacted circular stranded (cm) or sector shaped stranded (sm) conductor

Standard Packing

1.5 - 70 sqmm supplied in wooden drum @ 1000 meters

95 - 400 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm²	mm	kg/km
1.5	13.5	260
2.5	14.5	325
4	17.0	455
6	18.0	565
10	20.5	785
16	23.0	1,085
25	27.0	1,595
35	30.0	2,070
50	32.0	2,470
70	36.5	3,345
95	42.0	4,545
120	45.0	5,630
150	51.0	6,850
185	56.0	8,575
240	62.5	11,048
300	68.5	13,705
400	78.0	17,570

Electrical Data

Conductor			Insulation	Inductance	Current - Carrying Capacity at 30 °C *		Short Circuit current at 1 second Max. (kA)
Nom Cross Section Area mm²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 70 °C Max. (Ω/km)	Insulation Resistance at 20 °C Min. (M.Ω.km)	(mH/km)	in air Max. (A)	in ground Max. (A)	
1.5	12.1	14.478	50	0.328	18	24	0.17
2.5	7.41	8.866	50	0.304	25	32	0.28
4	4.61	5.516	50	0.303	34	41	0.45
6	3.08	3.685	50	0.288	44	52	0.68
10	1.83	2.190	50	0.269	60	69	1.13
16	1.15	1.376	40	0.255	80	89	1.81
25	0.727	0.870	40	0.255	105	116	2.82
35	0.524	0.627	40	0.246	130	138	3.95
50	0.387	0.464	30	0.247	160	165	5.65
70	0.268	0.321	30	0.238	200	205	7.91
95	0.193	0.232	30	0.238	245	245	10.7
120	0.153	0.184	30	0.233	285	280	13.56
150	0.124	0.150	20	0.233	325	315	16.94
185	0.0991	0.121	20	0.233	370	355	20.9
240	0.0754	0.093	20	0.232	435	415	27.11
300	0.0601	0.075	20	0.231	500	465	33.89
400	0.0470	0.060	20	0.229	600	535	40.06

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

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