

MEDIUM VOLTAGE CABLE



PT VOKSEL ELECTRIC Tbk.

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MEDIUM VOLTAGE

N2XSEBY	1
N2XSEFGbY	6
N2XSEY	11
N2XSEYBY	20
N2XSEYFGbY	24
N2XSY	28
NA2XSEBY	37
NA2XSEFGbY	42
NA2XSEY	47
NA2XSEYBY	56
NA2XSEYFGbY	60
NA2XSY	64
Condition for current carrying capacity	73
Derating factor	76
3 x 240 mm ² 11 kV	82
3 x 1 x 240 mm ² 12/20 (24) kV	83
1 x 3/0 AWG 35 kV	84
1 x 500 MCM AWG 35 kV	85
3 x 240 mm ² 33 kV	86

N2XSEBY 3 x (35 - 300) mm² 3.6/6 kV

Cu / XLPE / CTS / PVC / DSTA / PVC

(Copper Conductor, XLPE Insulated, Copper Tape Screen, PVC Inner Sheathed, Double Steel Tape Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

35 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 - 70 sqmm supplied in wooden drum @ 1000 meters

95 - 300 sqmm supplied in wooden drum on available length

Length Tolerance per drum $\pm 2\%$

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm ²	mm	kg/km
35	41.5	3,070
50	45.0	3,810
70	49.0	4,685
95	52.5	5,695
120	56.5	6,650
150	59.5	7,855
185	63.0	9,185
240	68.0	11,170
300	76.0	13,645

Application:

For installation indoor, in ground direct buried, for power station and switchgear, if there is a risk that low mechanical damage may occur.

Electrical Data

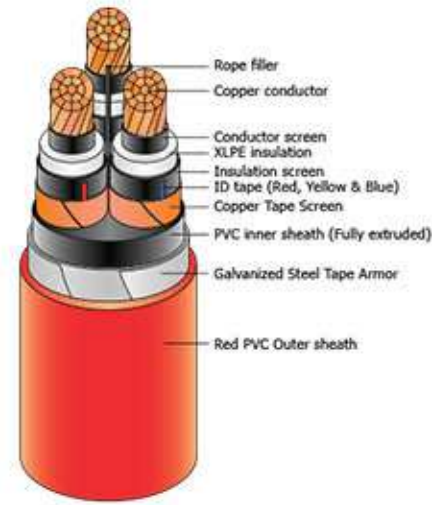
Nom Cross Section Area mm ²	Conductor		Inductance (mH/km)	Current - Carrying Capacity		Short Circuit Current at 1 second	
	DC Resistance at 20 °C Max. (Ω /km)	AC Resistance at 90 °C Max. (Ω /km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
35	0.524	0.668	0.355	172	154	5.20	1.03
50	0.387	0.494	0.328	205	181	7.43	1.03
70	0.268	0.342	0.310	253	220	10.40	1.03
95	0.193	0.247	0.298	307	263	14.11	1.03
120	0.153	0.196	0.286	352	298	17.83	1.03
150	0.124	0.159	0.279	397	332	22.29	1.03
185	0.0991	0.128	0.272	453	374	27.49	1.03
240	0.0754	0.098	0.266	529	431	35.66	1.37
300	0.0601	0.079	0.259	599	482	44.57	1.37

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

N2XSEBY 3 x (35 - 300) mm² 6/10 kV

Cu / XLPE / CTS / PVC / DSTA / PVC

(Copper Conductor, XLPE Insulated, Copper Tape Screen, PVC Inner Sheathed, Double Steel Tape Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape
35 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing
35 - 50 sqmm supplied in wooden drum @ 1000 meters
70 - 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.
mm ²	mm	kg/km
35	46.0	3,540
50	49.0	4,260
70	53.5	5,170
95	57.5	6,270
120	61.0	7,195
150	64.0	8,420
185	67.5	9,780
240	72.0	11,730
300	79.0	14,105

Application:

For installation indoor, in ground direct buried, for power station and switchgear, if there is a risk that low mechanical damage may occur.

Electrical Data

Nom Cross Section Area mm ²	Conductor		Inductance (mH/km)	Current - Carrying Capacity		Short Circuit Current at 1 second	
	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		In air Max. (Amp) At 30 °C	In ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
35	0.524	0.668	0.378	172	154	5.20	1.03
50	0.387	0.494	0.350	205	181	7.43	1.03
70	0.268	0.342	0.330	253	220	10.40	1.03
95	0.193	0.247	0.316	307	263	14.11	1.03
120	0.153	0.196	0.303	352	298	17.83	1.03
150	0.124	0.159	0.295	397	332	22.29	1.03
185	0.0991	0.128	0.287	453	374	27.49	1.03
240	0.0754	0.098	0.279	529	431	35.66	1.37
300	0.0601	0.079	0.268	599	482	44.57	1.37

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

N2XSEBY 3 x (35 - 300) mm² 8.7/15 kV

Cu / XLPE / CTS / PVC / DSTA / PVC

(Copper Conductor, XLPE Insulated, Copper Tape Screen, PVC Inner Sheathed, Double Steel Tape Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape
35 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing
35 sqmm supplied in wooden drum @ 1000 meters
50 - 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.
mm ²	mm	kg/km
35	51.5	4,105
50	54.5	4,855
70	59.0	5,865
95	63.0	6,945
120	66.5	7,905
150	69.5	9,160
185	73.0	10,630
240	78.0	12,630
300	85.5	15,730

Application:

For installation indoor, in ground direct buried, for power station and switchgear, if there is a risk that low mechanical damage may occur.

Electrical Data

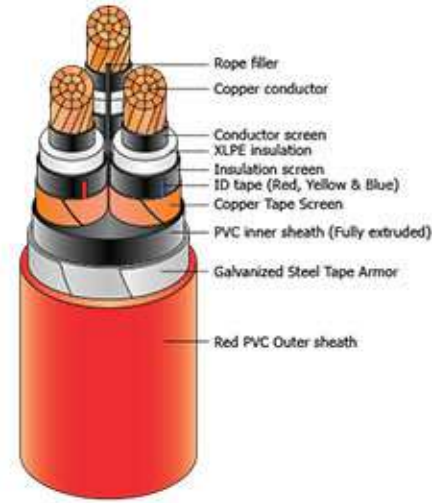
Nom Cross Section Area mm ²	Conductor		Inductance (mH/km)	Current - Carrying Capacity		Short Circuit Current at 1 second	
	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		In air Max. (Amp) At 30 °C	In ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
35	0.524	0.668	0.404	172	154	5.20	1.03
50	0.387	0.494	0.374	205	181	7.43	1.03
70	0.268	0.342	0.352	253	220	10.40	1.03
95	0.193	0.247	0.337	307	263	14.11	1.03
120	0.153	0.196	0.322	352	298	17.83	1.03
150	0.124	0.159	0.313	397	332	22.29	1.03
185	0.0991	0.128	0.304	453	374	27.49	1.03
240	0.0754	0.098	0.295	529	431	35.66	1.37
300	0.0601	0.079	0.282	599	482	44.57	1.37

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

N2XSEBY 3 x (35 - 300) mm² 12/20 kV

Cu / XLPE / CTS / PVC / DSTA / PVC

(Copper Conductor, XLPE Insulated, Copper Tape Screen, PVC Inner Sheathed, Double Steel Tape Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape
35 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing
35 - 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.
mm ²	mm	kg/km
35	57.0	4,725
50	60.0	5,505
70	64.0	6,495
95	67.5	7,605
120	71.0	8,595
150	74.5	9,955
185	78.0	11,380
240	84.0	14,145
300	90.5	16,625

Application:

For installation indoor, in ground direct buried, for power station and switchgear, if there is a risk that low mechanical damage may occur.

Electrical Data

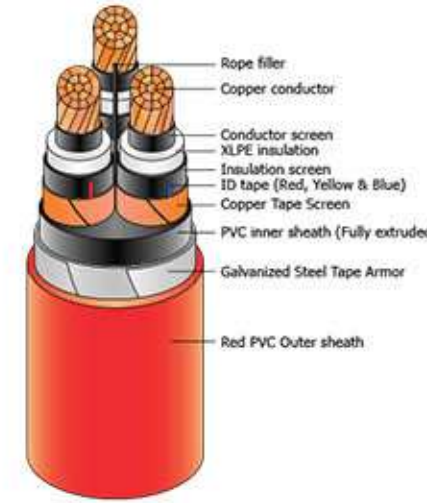
Nom Cross Section Area mm ²	Conductor		Inductance (mH/km)	Current - Carrying Capacity		Short Circuit Current at 1 second	
	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		In air Max. (Amp) At 30 °C	In ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
35	0.524	0.668	0.425	172	154	5.20	1.03
50	0.387	0.494	0.394	205	181	7.43	1.03
70	0.268	0.342	0.370	253	220	10.40	1.03
95	0.193	0.247	0.353	307	263	14.11	1.03
120	0.153	0.196	0.338	352	298	17.83	1.03
150	0.124	0.159	0.328	397	332	22.29	1.03
185	0.0991	0.128	0.319	453	374	27.49	1.03
240	0.0754	0.098	0.308	529	431	35.66	1.37
300	0.0601	0.079	0.294	599	482	44.57	1.37

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

N2XSEBY 3 x (35 - 300) mm² 18/30 kV

Cu / XLPE / CTS / PVC / DSTA / PVC

(Copper Conductor, XLPE Insulated, Copper Tape Screen, PVC Inner Sheathed, Double Steel Tape Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape
35 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing
35 - 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.
mm ²	mm	kg/km
35	69.0	6,325
50	72.0	7,170
70	76.5	8,330
95	81.5	10,230
120	85.0	11,330
150	88.0	12,705
185	91.5	14,240
240	96.5	16,525
300	103.0	19,145

Application:

For installation indoor, in ground direct buried, for power station and switchgear, if there is a risk that low mechanical damage may occur.

Electrical Data

Nom Cross Section Area mm ²	Conductor		Inductance (mH/km)	Current - Carrying Capacity		Short Circuit Current at 1 second	
	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		In air Max. (Amp) At 30 °C	In ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
35	0.524	0.668	0.469	172	154	5.20	1.03
50	0.387	0.494	0.436	205	181	7.43	1.03
70	0.268	0.342	0.409	253	220	10.40	1.03
95	0.193	0.247	0.390	307	263	14.11	1.03
120	0.153	0.196	0.373	352	298	17.83	1.03
150	0.124	0.159	0.362	397	332	22.29	1.03
185	0.0991	0.128	0.351	453	374	27.49	1.03
240	0.0754	0.098	0.338	529	431	35.66	1.37
300	0.0601	0.079	0.322	599	482	44.57	1.37

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

N2XSEFGbY 3 x (35 - 300) mm² 3.6/6 kV

Cu / XLPE / CTS / PVC / GSFA / PVC

(Copper Conductor, XLPE Insulated, Copper Tape Screen, PVC Inner Sheathed, Galvanized Steel Flat Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

35 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 - 50 sqmm supplied in wooden drum @ 1000 meters
70 - 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.
mm ²	mm	kg/km
35	41.5	3,345
50	45.0	4,110
70	49.0	5,015
95	53.0	6,055
120	57.0	7,035
150	60.0	8,260
185	63.0	9,615
240	68.5	11,640
300	76.0	14,170

Application:

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

Electrical Data

Nom Cross Section Area mm ²	Conductor		Inductance (mH/km)	Current - Carrying Capacity		Short Circuit Current at 1 second	
	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		In air Max. (Amp) At 30 °C	In ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
35	0.524	0.668	0.355	172	154	5.20	1.03
50	0.387	0.494	0.328	205	181	7.43	1.03
70	0.268	0.342	0.310	253	220	10.40	1.03
95	0.193	0.247	0.298	307	263	14.11	1.03
120	0.153	0.196	0.286	352	298	17.83	1.03
150	0.124	0.159	0.279	397	332	22.29	1.03
185	0.0991	0.128	0.272	453	374	27.49	1.03
240	0.0754	0.098	0.266	529	431	35.66	1.37
300	0.0601	0.079	0.259	599	482	44.57	1.37

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

N2XSEFGbY 3 x (35 - 300) mm² 6/10 kV

Cu / XLPE / CTS / PVC / GSFA / PVC

(Copper Conductor, XLPE Insulated, Copper Tape Screen, PVC Inner Sheathed, Galvanized Steel Flat Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

35 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 sqmm supplied in wooden drum @ 1000 meters
50 - 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.
mm ²	mm	kg/km
35	46.5	3,845
50	49.5	4,590
70	53.5	5,530
95	57.5	6,660
120	61.0	7,615
150	64.0	8,860
185	67.5	10,245
240	72.0	12,230
300	79.0	14,655

Application:

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

Electrical Data

Nom Cross Section Area mm ²	Conductor		Inductance (mH/km)	Current - Carrying Capacity		Short Circuit Current at 1 second	
	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		In air Max. (Amp) At 30 °C	In ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
35	0.524	0.668	0.378	172	154	5.20	1.03
50	0.387	0.494	0.350	205	181	7.43	1.03
70	0.268	0.342	0.330	253	220	10.40	1.03
95	0.193	0.247	0.316	307	263	14.11	1.03
120	0.153	0.196	0.303	352	298	17.83	1.03
150	0.124	0.159	0.295	397	332	22.29	1.03
185	0.0991	0.128	0.287	453	374	27.49	1.03
240	0.0754	0.098	0.279	529	431	35.66	1.37
300	0.0601	0.079	0.268	599	482	44.57	1.37

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

N2XSEFGbY 3 x (35 - 300) mm² 8.7/15 kV

Cu / XLPE / CTS / PVC / GSFA / PVC

(Copper Conductor, XLPE Insulated, Copper Tape Screen, PVC Inner Sheathed, Galvanized Steel Flat Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

35 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 - 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.
mm ²	mm	kg/km
35	52.0	4,455
50	55.0	5,225
70	59.5	6,270
95	63.0	7,375
120	66.5	8,365
150	69.5	9,640
185	73.5	11,135
240	78.0	13,170
300	84.5	15,580

Application:

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

Electrical Data

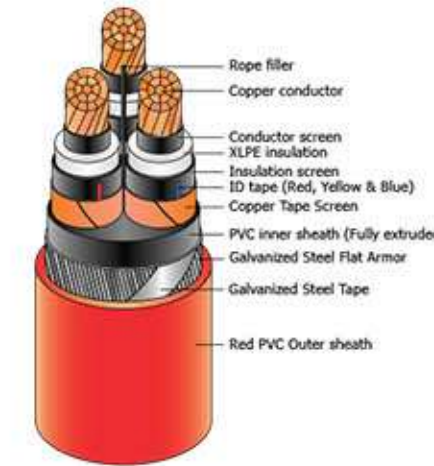
Nom Cross Section Area mm ²	Conductor		Inductance (mH/km)	Current - Carrying Capacity		Short Circuit Current at 1 second	
	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		In air Max. (Amp) At 30 °C	In ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
35	0.524	0.668	0.404	172	154	5.20	1.03
50	0.387	0.494	0.374	205	181	7.43	1.03
70	0.268	0.342	0.352	253	220	10.40	1.03
95	0.193	0.247	0.337	307	263	14.11	1.03
120	0.153	0.196	0.322	352	298	17.83	1.03
150	0.124	0.159	0.313	397	332	22.29	1.03
185	0.0991	0.128	0.304	453	374	27.49	1.03
240	0.0754	0.098	0.295	529	431	35.66	1.37
300	0.0601	0.079	0.282	599	482	44.57	1.37

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

N2XSEFGbY 3 x (35 - 300) mm² 12/20 kV

Cu / XLPE / CTS / PVC / GSFA / PVC

(Copper Conductor, XLPE Insulated, Copper Tape Screen, PVC Inner Sheathed, Galvanized Steel Flat Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

35 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 - 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.
mm ²	mm	kg/km
35	57.0	5,115
50	60.0	5,915
70	64.0	6,935
95	68.0	8,075
120	71.5	9,090
150	74.5	10,470
185	78.0	11,925
240	83.0	13,995
300	89.5	16,465

Application:

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

Electrical Data

Nom Cross Section Area mm ²	Conductor		Inductance (mH/km)	Current - Carrying Capacity		Short Circuit Current at 1 second	
	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		In air Max. (Amp) At 30 °C	In ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
35	0.524	0.668	0.425	172	154	5.20	1.03
50	0.387	0.494	0.394	205	181	7.43	1.03
70	0.268	0.342	0.370	253	220	10.40	1.03
95	0.193	0.247	0.353	307	263	14.11	1.03
120	0.153	0.196	0.338	352	298	17.83	1.03
150	0.124	0.159	0.328	397	332	22.29	1.03
185	0.0991	0.128	0.319	453	374	27.49	1.03
240	0.0754	0.098	0.308	529	431	35.66	1.37
300	0.0601	0.079	0.294	599	482	44.57	1.37

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

N2XSEFGbY 3 x (35 - 300) mm² 18/30 kV

Cu / XLPE / CTS / PVC / GSFA / PVC

(Copper Conductor, XLPE Insulated, Copper Tape Screen, PVC Inner Sheathed, Galvanized Steel Flat Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

35 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 - 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.
mm ²	mm	kg/km
35	69.0	6,800
50	72.0	7,665
70	76.5	8,860
95	80.5	10,085
120	84.0	11,180
150	87.0	12,550
185	90.5	14,080
240	95.5	16,355
300	102.0	18,970

Application:

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

Electrical Data

Nom Cross Section Area mm ²	Conductor		Inductance (mH/km)	Current - Carrying Capacity		Short Circuit Current at 1 second	
	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		In air Max. (Amp) At 30 °C	In ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
35	0.524	0.668	0.469	172	154	5.20	1.03
50	0.387	0.494	0.436	205	181	7.43	1.03
70	0.268	0.342	0.409	253	220	10.40	1.03
95	0.193	0.247	0.390	307	263	14.11	1.03
120	0.153	0.196	0.373	352	298	17.83	1.03
150	0.124	0.159	0.362	397	332	22.29	1.03
185	0.0991	0.128	0.351	453	374	27.49	1.03
240	0.0754	0.098	0.338	529	431	35.66	1.37
300	0.0601	0.079	0.322	599	482	44.57	1.37

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

N2XSEY 3 x (35 - 300) mm² 3.6/6 kV

Cu / XLPE / CTS / PVC

(Copper Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

35 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 - 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.
mm ²	mm	kg/km
35	39.0	2,495
50	42.5	3,185
70	47.0	3,995
95	50.5	4,955
120	54.5	5,845
150	57.5	7,005
185	61.0	8,285
240	66.0	10,195
300	74.0	12,550

Application:

Indoors, cable trunking, outdoors and in ground; For power stations, industry and switchgear.

Electrical Data

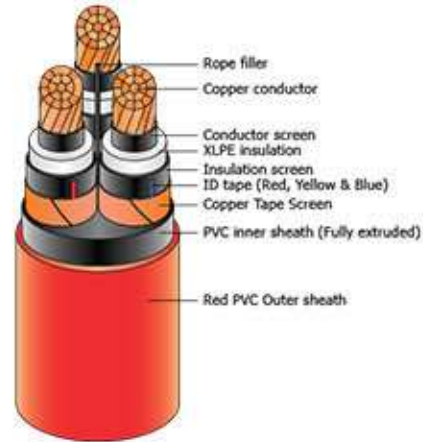
Nom Cross Section Area mm ²	Conductor		Inductance (mH/km)	Current - Carrying Capacity		Short Circuit Current at 1 second	
	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		In air Max. (Amp) At 30 °C	In ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
35	0.524	0.668	0.355	170	153	5.20	1.03
50	0.387	0.494	0.328	204	181	7.43	1.03
70	0.268	0.342	0.310	253	221	10.40	1.03
95	0.193	0.247	0.298	304	262	14.11	1.03
120	0.153	0.196	0.286	351	298	17.83	1.03
150	0.124	0.159	0.279	398	334	22.29	1.03
185	0.0991	0.128	0.272	455	377	27.49	1.03
240	0.0754	0.098	0.266	531	434	35.66	1.37
300	0.0601	0.079	0.259	606	489	44.57	1.37

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

N2XSEY 3 x (35 - 300) mm² 6/10 kV

Cu / XLPE / CTS / PVC

(Copper Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

35 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 - 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.
mm ²	mm	kg/km
35	44.0	2,895
50	47.0	3,565
70	51.0	4,415
95	55.5	5,455
120	59.0	6,325
150	62.0	7,510
185	65.5	8,815
240	70.0	10,695
300	76.0	12,970

Application:

Indoors, cable trunking, outdoors and in ground; For power stations, industry and switchgear.

Electrical Data

Nom Cross Section Area mm ²	Conductor		Inductance (mH/km)	Current - Carrying Capacity		Short Circuit Current at 1 second	
	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		In air Max. (Amp) At 30 °C	In ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
35	0.524	0.668	0.378	170	153	5.20	1.03
50	0.387	0.494	0.350	204	181	7.43	1.03
70	0.268	0.342	0.330	253	221	10.40	1.03
95	0.193	0.247	0.316	304	262	14.11	1.03
120	0.153	0.196	0.303	351	298	17.83	1.03
150	0.124	0.159	0.295	398	334	22.29	1.03
185	0.0991	0.128	0.287	455	377	27.49	1.03
240	0.0754	0.098	0.279	531	434	35.66	1.37
300	0.0601	0.079	0.268	606	489	44.57	1.37

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

N2XSEY 3 x (35 - 300) mm² 8.7/15 kV

Cu / XLPE / CTS / PVC

(Copper Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

35 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 - 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.
mm ²	mm	kg/km
35	49.5	3,380
50	52.5	4,085
70	57.0	5,030
95	60.5	6,055
120	64.0	6,960
150	67.0	8,165
185	71.0	9,580
240	75.5	11,510
300	82.0	13,775

Application:

Indoors, cable trunking, outdoors and in ground; For power stations, industry and switchgear.

Electrical Data

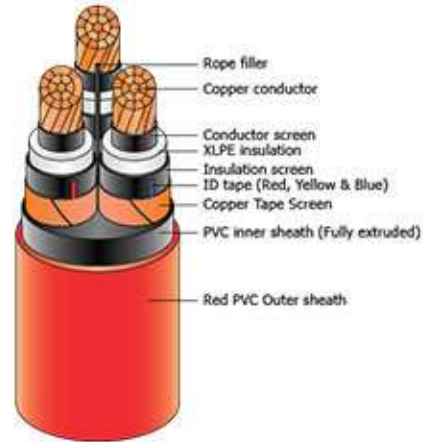
Nom Cross Section Area mm ²	Conductor		Inductance (mH/km)	Current - Carrying Capacity		Short Circuit Current at 1 second	
	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		In air Max. (Amp) At 30 °C	In ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
35	0.524	0.668	0.404	170	153	5.20	1.03
50	0.387	0.494	0.374	204	181	7.43	1.03
70	0.268	0.342	0.352	253	221	10.40	1.03
95	0.193	0.247	0.337	304	262	14.11	1.03
120	0.153	0.196	0.322	351	298	17.83	1.03
150	0.124	0.159	0.313	398	334	22.29	1.03
185	0.0991	0.128	0.304	455	377	27.49	1.03
240	0.0754	0.098	0.295	531	434	35.66	1.37
300	0.0601	0.079	0.282	606	489	44.57	1.37

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

N2XSEY 3 x (35 - 300) mm² 12/20 kV

Cu / XLPE / CTS / PVC

(Copper Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

35 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 - 50 sqmm supplied in wooden drum @ 1000 meters

70 - 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.
mm ²	mm	kg/km
35	54.5	3,920
50	57.5	4,655
70	62.0	5,585
95	65.5	6,640
120	69.0	7,580
150	72.5	8,885
185	76.0	10,260
240	80.5	12,230
300	87.0	14,555

Application:

Indoors, cable trunking, outdoors and in ground; For power stations, industry and switchgear.

Electrical Data

Nom Cross Section Area mm ²	Conductor		Inductance (mH/km)	Current - Carrying Capacity		Short Circuit Current at 1 second	
	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		In air Max. (Amp) At 30 °C	In ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
35	0.524	0.668	0.425	170	153	5.20	1.03
50	0.387	0.494	0.394	204	181	7.43	1.03
70	0.268	0.342	0.370	253	221	10.40	1.03
95	0.193	0.247	0.353	304	262	14.11	1.03
120	0.153	0.196	0.338	351	298	17.83	1.03
150	0.124	0.159	0.328	398	334	22.29	1.03
185	0.0991	0.128	0.319	455	377	27.49	1.03
240	0.0754	0.098	0.308	531	434	35.66	1.37
300	0.0601	0.079	0.294	606	489	44.57	1.37

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

N2XSEY 3 x (35 - 300) mm² 18/30 kV

Cu / XLPE / CTS / PVC

(Copper Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

35 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 - 50 sqmm supplied in wooden drum @ 1000 meters

50 - 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.
mm ²	mm	kg/km
35	67.0	5,340
50	70.0	6,140
70	74.5	7,230
95	78.0	8,370
120	81.5	9,390
150	84.5	10,695
185	88.0	12,145
240	93.0	14,310
300	99.5	16,780

Application:

Indoors, cable trunking, outdoors and in ground; For power stations, industry and switchgear.

Electrical Data

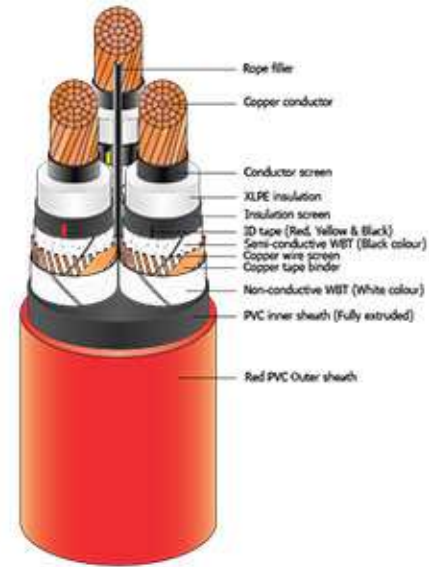
Nom Cross Section Area mm ²	Conductor		Inductance (mH/km)	Current - Carrying Capacity		Short Circuit Current at 1 second	
	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		In air Max. (Amp) At 30 °C	In ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
35	0.524	0.668	0.469	170	153	5.20	1.03
50	0.387	0.494	0.436	204	181	7.43	1.03
70	0.268	0.342	0.409	253	221	10.40	1.03
95	0.193	0.247	0.390	304	262	14.11	1.03
120	0.153	0.196	0.373	351	298	17.83	1.03
150	0.124	0.159	0.362	398	334	22.29	1.03
185	0.0991	0.128	0.351	455	377	27.49	1.03
240	0.0754	0.098	0.338	531	434	35.66	1.37
300	0.0601	0.079	0.322	606	489	44.57	1.37

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

N2XSEY 3 x (35 - 300) mm² 3.6/6 kV

Cu / XLPE / CWS / PVC

(Copper Conductor, XLPE Insulated, Copper Wire Screen, PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 4 & IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

35 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 - 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.
mm ²	mm	kg/km
35	48.0	3,370
50	51.0	4,025
70	55.0	4,830
95	59.0	5,885
120	62.5	6,745
150	65.5	8,185
185	69.0	9,485
240	74.5	11,500
300	82.0	13,825

Application:

Indoors, cable trunking, outdoors and in ground; For power stations, industry and switchgear.

Electrical Data

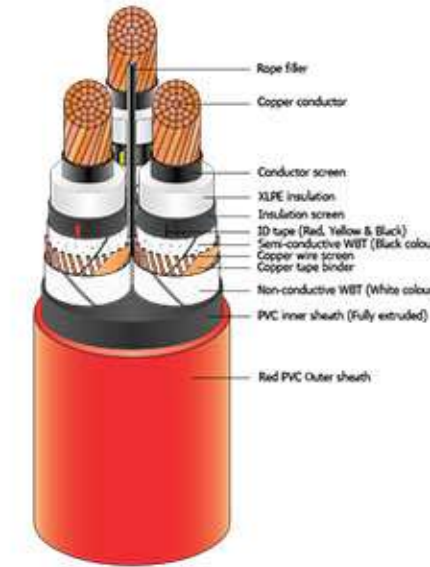
Nom Cross Section Area mm ²	Conductor		Inductance (mH/km)	Current - Carrying Capacity		Short Circuit Current at 1 second	
	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
35	0.524	0.668	0.393	170	153	5.20	2.85
50	0.387	0.494	0.364	204	181	7.43	2.85
70	0.268	0.342	0.343	253	221	10.40	2.85
95	0.193	0.247	0.328	304	262	14.11	2.85
120	0.153	0.196	0.314	351	298	17.83	2.85
150	0.124	0.159	0.306	398	334	22.29	4.45
185	0.0991	0.128	0.297	455	377	27.49	4.45
240	0.0754	0.098	0.289	531	434	35.66	4.45
300	0.0601	0.079	0.282	606	489	44.57	4.45

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

N2XSEY 3 x (35 - 300) mm² 6/10 kV

Cu / XLPE / CWS / PVC

(Copper Conductor, XLPE Insulated, Copper Wire Screen, PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 4 & IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

35 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 - 50 sqmm supplied in wooden drum @ 1000 meters
70 - 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.
mm ²	mm	kg/km
35	52.0	3,730
50	55.5	4,475
70	60.0	5,370
95	63.5	6,375
120	67.0	7,270
150	70.0	8,735
185	73.5	10,060
240	78.5	12,060
300	85.0	14,300

Application:

Indoors, cable trunking, outdoors and in ground; For power stations, industry and switchgear.

Electrical Data

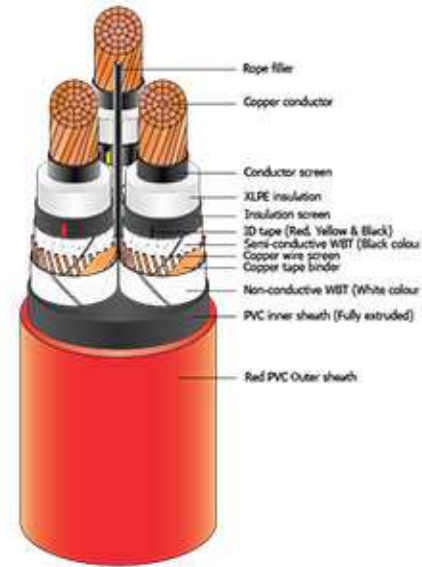
Nom Cross Section Area mm ²	Conductor		Inductance (mH/km)	Current - Carrying Capacity		Short Circuit Current at 1 second	
	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
35	0.524	0.668	0.413	170	153	5.20	2.85
50	0.387	0.494	0.383	204	181	7.43	2.85
70	0.268	0.342	0.360	253	221	10.40	2.85
95	0.193	0.247	0.344	304	262	14.11	2.85
120	0.153	0.196	0.329	351	298	17.83	2.85
150	0.124	0.159	0.320	398	334	22.29	4.45
185	0.0991	0.128	0.310	455	377	27.49	4.45
240	0.0754	0.098	0.300	531	434	35.66	4.45
300	0.0601	0.079	0.287	606	489	44.57	4.45

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

N2XSEY 3 x (35 - 300) mm² 8.7/15 kV

Cu / XLPE / CWS / PVC

(Copper Conductor, XLPE Insulated, Copper Wire Screen, PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 4 & IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

35 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 - 50 sqmm supplied in wooden drum @ 1000 meters
70 - 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.
mm ²	mm	kg/km
35	57.5	4,255
50	60.5	4,985
70	65.0	5,945
95	68.5	6,985
120	73.0	8,015
150	76.0	9,505
185	79.0	10,865
240	84.0	12,845
300	90.5	15,155

Application:

Indoors, cable trunking, outdoors and in ground; For power stations, industry and switchgear.

Electrical Data

Nom Cross Section Area mm ²	Conductor		Inductance (mH/km)	Current - Carrying Capacity		Short Circuit Current at 1 second	
	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
35	0.524	0.668	0.435	170	153	5.20	2.85
50	0.387	0.494	0.404	204	181	7.43	2.85
70	0.268	0.342	0.379	253	221	10.40	2.85
95	0.193	0.247	0.362	304	262	14.11	2.85
120	0.153	0.196	0.346	351	298	17.83	2.85
150	0.124	0.159	0.336	398	334	22.29	4.45
185	0.0991	0.128	0.326	455	377	27.49	4.45
240	0.0754	0.098	0.315	531	434	35.66	4.45
300	0.0601	0.079	0.301	606	489	44.57	4.45

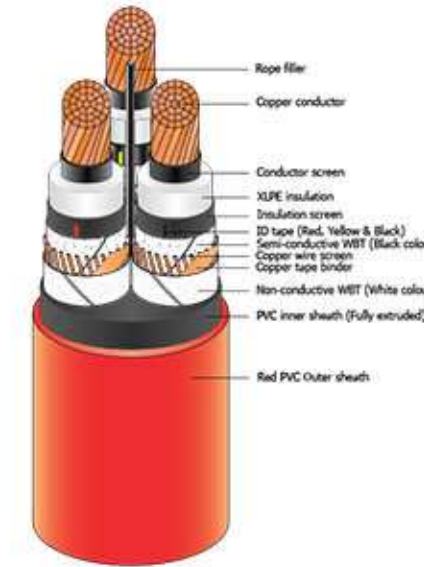
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information



N2XSEY 3 x (35 - 300) mm² 12/20 kV

Cu / XLPE / CWS / PVC

(Copper Conductor, XLPE Insulated, Copper Wire Screen, PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 4 & IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

35 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 sqmm supplied in wooden drum @ 1000 meters
50 - 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.
mm ²	mm	kg/km
35	63.0	4,845
50	66.0	5,605
70	70.0	6,545
95	74.0	7,685
120	77.5	8,645
150	80.5	10,165
185	84.0	11,595
240	89.0	13,615
300	96.0	16,025

Application:

Indoors, cable trunking, outdoors and in ground; For power stations, industry and switchgear.

Electrical Data

Nom Cross Section Area mm ²	Conductor		Inductance (mH/km)	Current - Carrying Capacity		Short Circuit Current at 1 second	
	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
35	0.524	0.668	0.453	170	153	5.20	2.85
50	0.387	0.494	0.421	204	181	7.43	2.85
70	0.268	0.342	0.395	253	221	10.40	2.85
95	0.193	0.247	0.377	304	262	14.11	2.85
120	0.153	0.196	0.360	351	298	17.83	2.85
150	0.124	0.159	0.350	398	334	22.29	4.45
185	0.0991	0.128	0.339	455	377	27.49	4.45
240	0.0754	0.098	0.327	531	434	35.66	4.45
300	0.0601	0.079	0.312	606	489	44.57	4.45

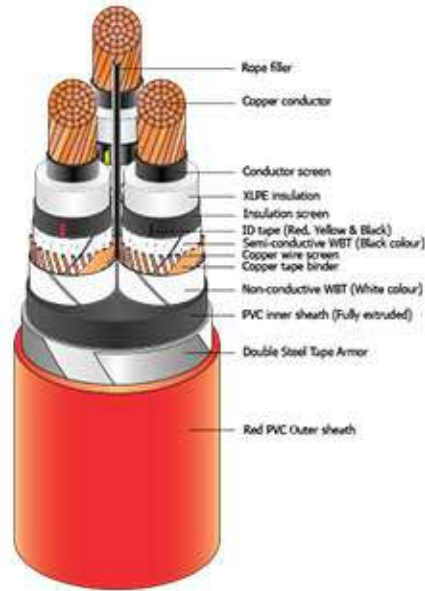
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information



N2XSEYBY 3 x (35 - 300) mm² 3.6/6 kV

Cu / XLPE / CWS / PVC / DSTA / PVC

(Copper Conductor, XLPE Insulated, Copper Wire Screen, PVC Inner Sheathed / DSTA / PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 4 & IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

35 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 - 50 sqmm supplied in wooden drum @ 1000 meters

70 - 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.
mm ²	mm	kg/km
35	50.0	4,055
50	53.0	4,770
70	57.5	5,695
95	61.5	6,755
120	65.0	7,675
150	68.0	9,215
185	72.0	10,605
240	78.5	13,330
300	86.0	15,880

Application:

For installation indoors, in ground direct buried. For power station and switchgear, if there is a risk that low mechanical damage may occur.

Electrical Data

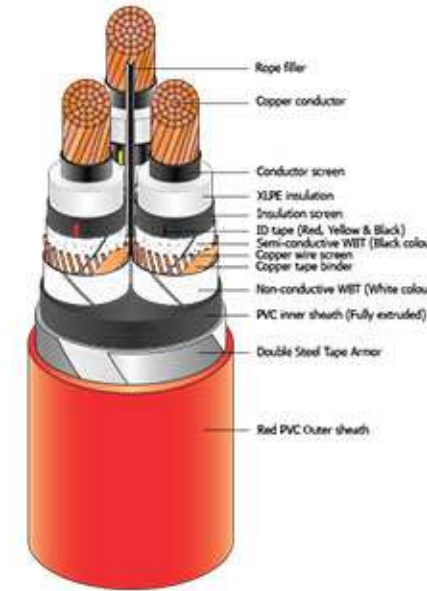
Nom Cross Section Area mm ²	Conductor		Inductance (mH/km)	Current - Carrying Capacity		Short Circuit Current at 1 second	
	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
35	0.524	0.668	0.393	172	154	5.20	2.85
50	0.387	0.494	0.364	205	181	7.43	2.85
70	0.268	0.342	0.343	253	220	10.40	2.85
95	0.193	0.247	0.328	307	263	14.11	2.85
120	0.153	0.196	0.314	352	298	17.83	2.85
150	0.124	0.159	0.306	397	332	22.29	4.45
185	0.0991	0.128	0.297	453	374	27.49	4.45
240	0.0754	0.098	0.289	529	431	35.66	4.45
300	0.0601	0.079	0.282	599	482	44.57	4.45

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

N2XSEYBY 3 x (35 - 300) mm² 6/10 kV

Cu / XLPE / CWS / PVC / DSTA / PVC

(Copper Conductor, XLPE Insulated, Copper Wire Screen, PVC Inner Sheathed / DSTA / PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 4 & IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

35 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 sqmm supplied in wooden drum @ 1000 meters

50 - 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.
mm ²	mm	kg/km
35	54.5	4,495
50	57.5	5,265
70	62.0	6,225
95	66.0	7,345
120	69.5	8,295
150	72.5	9,835
185	76.0	11,255
240	83.5	14,030
300	89.0	16,435

Application:

For installation indoors, in ground direct buried. For power station and switchgear, if there is a risk that low mechanical damage may occur.

Electrical Data

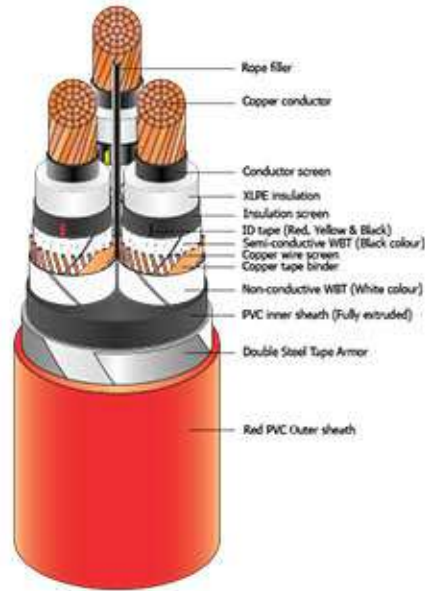
Nom Cross Section Area mm ²	Conductor		Inductance (mH/km)	Current - Carrying Capacity		Short Circuit Current at 1 second	
	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
35	0.524	0.668	0.413	172	154	5.20	2.85
50	0.387	0.494	0.383	205	181	7.43	2.85
70	0.268	0.342	0.360	253	220	10.40	2.85
95	0.193	0.247	0.344	307	263	14.11	2.85
120	0.153	0.196	0.329	352	298	17.83	2.85
150	0.124	0.159	0.320	397	332	22.29	4.45
185	0.0991	0.128	0.310	453	374	27.49	4.45
240	0.0754	0.098	0.300	529	431	35.66	4.45
300	0.0601	0.079	0.287	599	482	44.57	4.45

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

N2XSEYBY 3 x (35 - 300) mm² 8.7/15 kV

Cu / XLPE / CWS / PVC / DSTA / PVC

(Copper Conductor, XLPE Insulated, Copper Wire Screen, PVC Inner Sheathed / DSTA / PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 4 & IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

35 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 - 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.
mm ²	mm	kg/km
35	60.0	5,165
50	63.0	5,940
70	67.5	6,940
95	71.5	8,075
120	75.0	9,055
150	78.0	10,665
185	82.0	12,120
240	88.0	14,955
300	94.5	17,470

Application:

For installation indoors, in ground direct buried. For power station and switchgear, if there is a risk that low mechanical damage may occur.

Electrical Data

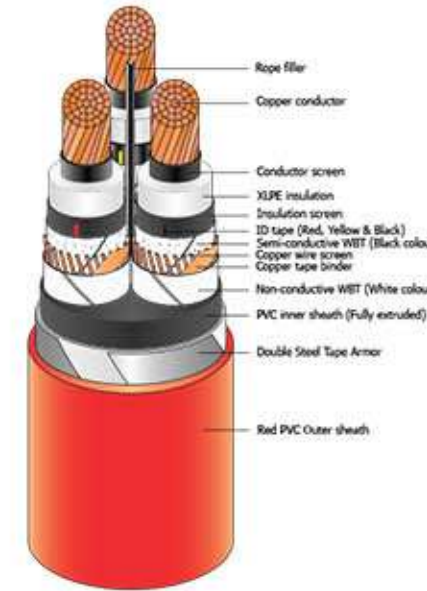
Nom Cross Section Area mm ²	Conductor		Inductance (mH/km)	Current - Carrying Capacity		Short Circuit Current at 1 second	
	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
35	0.524	0.668	0.435	172	154	5.20	2.85
50	0.387	0.494	0.404	205	181	7.43	2.85
70	0.268	0.342	0.379	253	220	10.40	2.85
95	0.193	0.247	0.362	307	263	14.11	2.85
120	0.153	0.196	0.346	352	298	17.83	2.85
150	0.124	0.159	0.336	397	332	22.29	4.45
185	0.0991	0.128	0.326	453	374	27.49	4.45
240	0.0754	0.098	0.315	529	431	35.66	4.45
300	0.0601	0.079	0.301	599	482	44.57	4.45

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

N2XSEYBY 3 x (35 - 300) mm² 12/20 kV

Cu / XLPE / CWS / PVC / DSTA / PVC

(Copper Conductor, XLPE Insulated, Copper Wire Screen, PVC Inner Sheathed / DSTA / PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 4 & IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

35 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 - 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.
mm ²	mm	kg/km
35	65.0	5,715
50	68.0	6,545
70	72.5	7,615
95	76.0	8,750
120	79.5	9,795
150	84.5	12,145
185	87.5	13,620
240	92.5	15,805
300	99.5	18,375

Application:

For installation indoors, in ground direct buried. For power station and switchgear, if there is a risk that low mechanical damage may occur.

Electrical Data

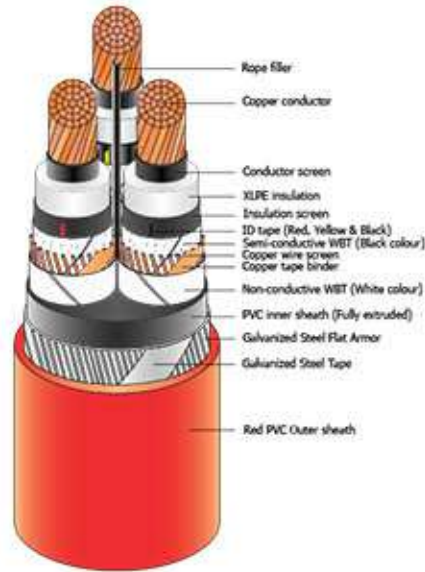
Nom Cross Section Area mm ²	Conductor		Inductance (mH/km)	Current - Carrying Capacity		Short Circuit Current at 1 second	
	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
35	0.524	0.668	0.453	172	154	5.20	2.85
50	0.387	0.494	0.421	205	181	7.43	2.85
70	0.268	0.342	0.395	253	220	10.40	2.85
95	0.193	0.247	0.377	307	263	14.11	2.85
120	0.153	0.196	0.360	352	298	17.83	2.85
150	0.124	0.159	0.350	397	332	22.29	4.45
185	0.0991	0.128	0.339	453	374	27.49	4.45
240	0.0754	0.098	0.327	529	431	35.66	4.45
300	0.0601	0.079	0.312	599	482	44.57	4.45

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

N2XSEYFGbY 3 x (35 - 300) mm² 3.6/6 kV

Cu / XLPE / CWS / PVC / GSFA / PVC

(Copper Conductor, XLPE Insulated, Copper Wire Screen, PVC Inner Sheathed / Galvanized Steel Flat Armor / PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 4 & IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

35 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 - 50 sqmm supplied in wooden drum @ 1000 meters

70 - 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.
mm ²	mm	kg/km
35	50.0	4,355
50	53.0	5,095
70	57.5	6,045
95	61.5	7,165
120	65.0	8,105
150	68.0	9,645
185	72.0	11,055
240	77.0	13,165
300	84.5	15,700

Application:

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

Electrical Data

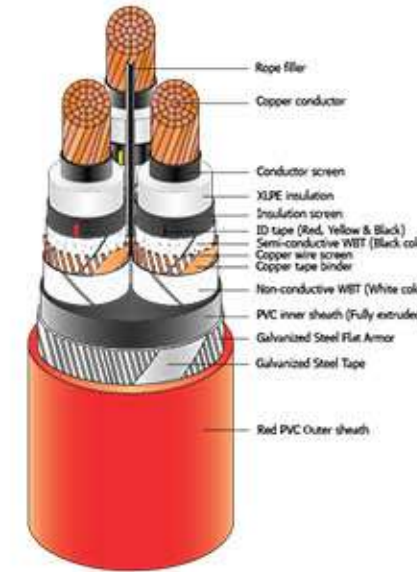
Nom Cross Section Area mm ²	Conductor		Inductance (mH/km)	Current - Carrying Capacity		Short Circuit Current at 1 second	
	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
35	0.524	0.668	0.393	172	154	5.20	2.85
50	0.387	0.494	0.364	205	181	7.43	2.85
70	0.268	0.342	0.343	253	220	10.40	2.85
95	0.193	0.247	0.328	307	263	14.11	2.85
120	0.153	0.196	0.314	352	298	17.83	2.85
150	0.124	0.159	0.306	397	332	22.29	4.45
185	0.0991	0.128	0.297	453	374	27.49	4.45
240	0.0754	0.098	0.289	529	431	35.66	4.45
300	0.0601	0.079	0.282	599	482	44.57	4.45

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

N2XSEYFGbY 3 x (35 - 300) mm² 6/10 kV

Cu / XLPE / CWS / PVC / GSFA / PVC

(Copper Conductor, XLPE Insulated, Copper Wire Screen, PVC Inner Sheathed / Galvanized Steel Flat Armor / PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 4 & IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

35 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 - 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.
mm ²	mm	kg/km
35	54.5	4,860
50	58.0	5,650
70	62.5	6,670
95	66.0	7,795
120	69.5	8,765
150	73.0	10,330
185	76.5	11,775
240	81.5	13,855
300	88.0	16,295

Application:

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

Electrical Data

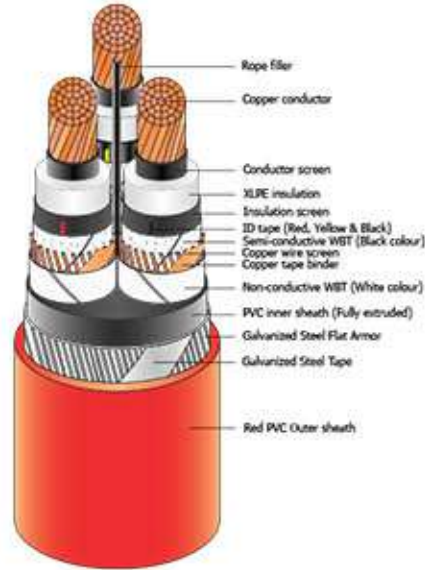
Nom Cross Section Area mm ²	Conductor		Inductance (mH/km)	Current - Carrying Capacity		Short Circuit Current at 1 second	
	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
35	0.524	0.668	0.413	172	154	5.20	2.85
50	0.387	0.494	0.383	205	181	7.43	2.85
70	0.268	0.342	0.360	253	220	10.40	2.85
95	0.193	0.247	0.344	307	263	14.11	2.85
120	0.153	0.196	0.329	352	298	17.83	2.85
150	0.124	0.159	0.320	397	332	22.29	4.45
185	0.0991	0.128	0.310	453	374	27.49	4.45
240	0.0754	0.098	0.300	529	431	35.66	4.45
300	0.0601	0.079	0.287	599	482	44.57	4.45

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

N2XSEYFGbY 3 x (35 - 300) mm² 8.7/15 kV

Cu / XLPE / CWS / PVC / GSFA / PVC

(Copper Conductor, XLPE Insulated, Copper Wire Screen, PVC Inner Sheathed / Galvanized Steel Flat Armor / PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 4 & IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape
35 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing
35 - 50 sqmm supplied in wooden drum @ 1000 meters
70 - 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.
mm ²	mm	kg/km
35	60.5	5,570
50	63.5	6,365
70	67.5	7,395
95	71.5	8,555
120	75.0	9,600
150	78.5	11,195
185	82.0	12,680
240	87.0	14,815
300	93.5	17,320

Application:

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

Electrical Data

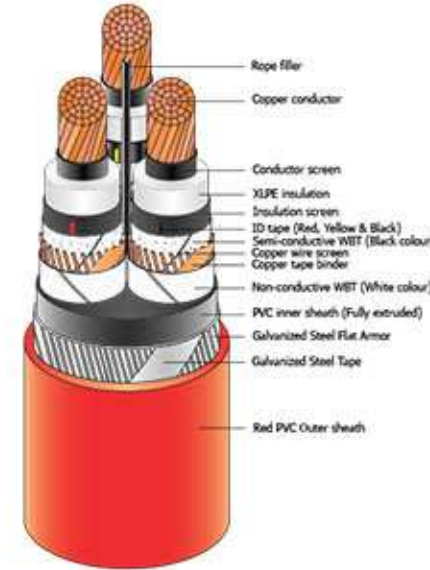
Nom Cross Section Area mm ²	Conductor		Inductance (mH/km)	Current - Carrying Capacity		Short Circuit Current at 1 second	
	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
35	0.524	0.668	0.435	172	154	5.20	2.85
50	0.387	0.494	0.404	205	181	7.43	2.85
70	0.268	0.342	0.379	253	220	10.40	2.85
95	0.193	0.247	0.362	307	263	14.11	2.85
120	0.153	0.196	0.346	352	298	17.83	2.85
150	0.124	0.159	0.336	397	332	22.29	4.45
185	0.0991	0.128	0.326	453	374	27.49	4.45
240	0.0754	0.098	0.315	529	431	35.66	4.45
300	0.0601	0.079	0.301	599	482	44.57	4.45

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

N2XSEYFGbY 3 x (35 - 300) mm² 12/20 kV

Cu / XLPE / CWS / PVC / GSFA / PVC

(Copper Conductor, XLPE Insulated, Copper Wire Screen, PVC Inner Sheathed / Galvanized Steel Flat Armor / PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 4 & IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape
35 - 300 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing
35 - 50 sqmm supplied in wooden drum @ 1000 meters
70 - 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.
mm ²	mm	kg/km
35	65.5	6,215
50	68.5	7,070
70	73.0	8,145
95	76.5	9,310
120	80.0	10,385
150	83.5	12,050
185	87.0	13,525
240	92.0	15,700
300	98.5	18,220

Application:

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

Electrical Data

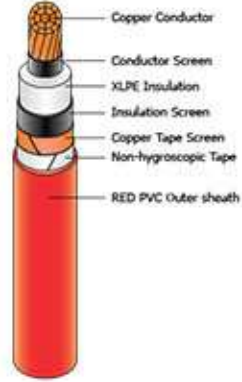
Nom Cross Section Area mm ²	Conductor		Inductance (mH/km)	Current - Carrying Capacity		Short Circuit Current at 1 second	
	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
35	0.524	0.668	0.453	172	154	5.20	2.85
50	0.387	0.494	0.421	205	181	7.43	2.85
70	0.268	0.342	0.395	253	220	10.40	2.85
95	0.193	0.247	0.377	307	263	14.11	2.85
120	0.153	0.196	0.360	352	298	17.83	2.85
150	0.124	0.159	0.350	397	332	22.29	4.45
185	0.0991	0.128	0.339	453	374	27.49	4.45
240	0.0754	0.098	0.327	529	431	35.66	4.45
300	0.0601	0.079	0.312	599	482	44.57	4.45

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

N2XSY 1 x (35 - 630) mm² 3.6/6 kV

Cu / XLPE / CTS / PVC

(Copper Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed)
Standard Specification : IEC 60502 - 2



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

35 - 630 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 - 300 sqmm supplied in wooden drum @ 1000 meters

400 - 630 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.
mm ²	mm	kg/km
35	18.1	625
50	19.5	805
70	21.5	1,030
95	23.0	1,290
120	25.0	1,525
150	26.5	1,865
185	28.0	2,230
240	30.5	2,780
300	34.0	3,395
400	37.0	4,390
500	41.0	5,325
630	45.5	6,705

Application:

For power station and switchgear as well as station because of small bending radius in confined spaces indoors. As underground because of light weight where installation conditions are difficult.

Electrical Data

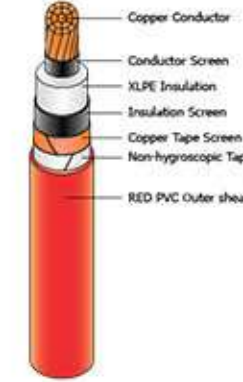
Conductor		Inductance		Current - Carrying Capacity				Short Circuit Current at 1 second		
Nom Cross Section Area mm ²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)	Trefoil formation	Flat formation	In air		In ground		Conductor Max. (kA)	Screen Max. (kA)
			(mH/km)	(mH/km)	Max. (Amp) at 30 °C	Max. (Amp) at 20 °C	Max. (Amp) at 30 °C	Max. (Amp) at 20 °C		
35	0.524	0.668	0.393	0.439	198	166	238	172	5.20	1.14
50	0.387	0.494	0.374	0.420	238	196	286	203	7.43	1.14
70	0.268	0.342	0.345	0.391	296	239	356	246	10.40	1.14
95	0.193	0.247	0.329	0.375	361	285	434	293	14.11	1.14
120	0.153	0.196	0.319	0.365	417	323	500	332	17.83	1.14
150	0.124	0.159	0.312	0.358	473	361	559	366	22.29	1.14
185	0.0991	0.128	0.303	0.350	543	406	637	410	27.49	1.14
240	0.0754	0.098	0.297	0.343	641	469	745	470	35.66	1.14
300	0.0601	0.079	0.288	0.334	735	526	846	524	44.57	1.14
400	0.0470	0.063	0.281	0.327	845	590	938	572	59.43	1.14
500	0.0366	0.051	0.274	0.320	974	755	999	772	74.29	1.14
630	0.0283	0.042	0.267	0.314	1118	846	1146	864	93.60	1.14

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

N2XSY 1 x (35 - 630) mm² 6/10 kV

Cu / XLPE / CTS / PVC

(Copper Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed)
Standard Specification : IEC 60502 - 2



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

35 - 630 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 - 300 sqmm supplied in wooden drum @ 1000 meters

400 - 630 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Application:

For power station and switchgear as well as station because of small bending radius in confined spaces indoors. As underground because of light weight where installation conditions are difficult.

Electrical Data

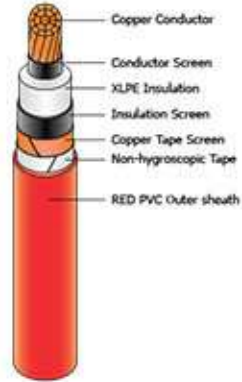
Conductor		Inductance		Current - Carrying Capacity				Short Circuit Current at 1 second		
Nom Cross Section Area mm ²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)	Trefoil formation	Flat formation	In air		In ground		Conductor Max. (kA)	Screen Max. (kA)
			(mH/km)	(mH/km)	Max. (Amp) at 30 °C	Max. (Amp) at 20 °C	Max. (Amp) at 30 °C	Max. (Amp) at 20 °C		
35	0.524	0.668	0.418	0.464	198	166	238	172	5.20	1.14
50	0.387	0.494	0.389	0.435	238	196	286	203	7.43	1.14
70	0.268	0.342	0.363	0.409	296	239	356	246	10.40	1.14
95	0.193	0.247	0.350	0.396	361	285	434	293	14.11	1.14
120	0.153	0.196	0.335	0.381	417	323	500	332	17.83	1.14
150	0.124	0.159	0.326	0.373	473	361	559	366	22.29	1.14
185	0.0991	0.128	0.317	0.363	543	406	637	410	27.49	1.14
240	0.0754	0.098	0.307	0.353	641	469	745	470	35.66	1.14
300	0.0601	0.079	0.294	0.340	735	526	846	524	44.57	1.14
400	0.0470	0.063	0.286	0.332	845	590	938	572	59.43	1.14
500	0.0366	0.051	0.279	0.325	974	755	999	772	74.29	1.14
630	0.0283	0.042	0.269	0.316	1118	846	1146	864	93.60	1.14

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

N2XSY 1 x (35 - 630) mm² 8.7/15 kV

Cu / XLPE / CTS / PVC

(Copper Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed)
Standard Specification : IEC 60502 - 2



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 Halogen

Note:

Conductor Shape

35 - 630 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 - 300 sqmm supplied in wooden drum @ 1000 meters

400 - 630 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.
mm ²	mm	kg/km
35	23.0	795
50	24.0	985
70	26.0	1,220
95	28.0	1,505
120	29.5	1,745
150	31.0	2,090
185	32.5	2,470
240	35.0	3,020
300	38.0	3,630
400	40.5	4,615
500	44.0	5,545
630	48.5	6,935

Application:

For power station and switchgear as well as station because of small bending radius in confined spaces indoors. As underground because of light weight where installation conditions are difficult.

Electrical Data

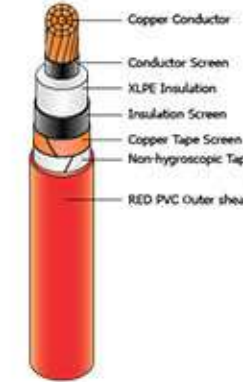
Conductor		Inductance		Current - Carrying Capacity				Short Circuit Current at 1 second		
Nom Cross Section Area mm ²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)	Trefoil formation	Flat formation	In air		In ground		Conductor Max. (kA)	Screen Max. (kA)
			(mH/km)	(mH/km)	Max. (Amp) at 30 °C	Max. (Amp) at 20 °C	Max. (Amp) at 30 °C	Max. (Amp) at 20 °C		
35	0.524	0.668	0.438	0.484	198	166	238	172	5.20	1.14
50	0.387	0.494	0.407	0.453	238	196	286	203	7.43	1.14
70	0.268	0.342	0.383	0.429	296	239	356	246	10.40	1.14
95	0.193	0.247	0.366	0.412	361	285	434	293	14.11	1.14
120	0.153	0.196	0.351	0.397	417	323	500	332	17.83	1.14
150	0.124	0.159	0.341	0.388	473	361	559	366	22.29	1.14
185	0.0991	0.128	0.332	0.378	543	406	637	410	27.49	1.14
240	0.0754	0.098	0.321	0.367	641	469	745	470	35.66	1.14
300	0.0601	0.079	0.308	0.354	735	526	846	524	44.57	1.14
400	0.0470	0.063	0.298	0.344	845	590	938	572	59.43	1.14
500	0.0366	0.051	0.288	0.335	974	755	999	772	74.29	1.14
630	0.0283	0.042	0.279	0.325	1118	846	1146	864	93.60	1.14

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

N2XSY 1 x (35 - 630) mm² 12/20 kV

Cu / XLPE / CTS / PVC

(Copper Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed)
Standard Specification : IEC 60502 - 2



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 Halogen

Note:

Conductor Shape

35 - 630 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 - 300 sqmm supplied in wooden drum @ 1000 meters

400 - 630 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Application:

For power station and switchgear as well as station because of small bending radius in confined spaces indoors. As underground because of light weight where installation conditions are difficult.

Electrical Data

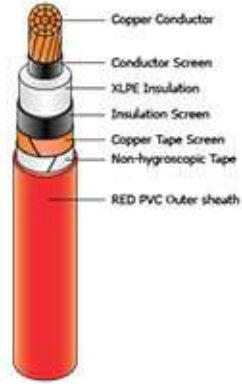
Conductor		Inductance		Current - Carrying Capacity				Short Circuit Current at 1 second		
Nom Cross Section Area mm ²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)	Trefoil formation	Flat formation	In air		In ground		Conductor Max. (kA)	Screen Max. (kA)
			(mH/km)	(mH/km)	Max. (Amp) at 30 °C	Max. (Amp) at 20 °C	Max. (Amp) at 30 °C	Max. (Amp) at 20 °C		
35	0.524	0.668	0.457	0.503	198	166	238	172	5.20	1.14
50	0.387	0.494	0.425	0.371	238	196	286	203	7.43	1.14
70	0.268	0.342	0.399	0.456	296	239	356	246	10.40	1.14
95	0.193	0.247	0.382	0.428	361	285	434	293	14.11	1.14
120	0.153	0.196	0.366	0.412	417	323	500	332	17.83	1.14
150	0.124	0.159	0.355	0.402	473	361	559	366	22.29	1.14
185	0.0991	0.128	0.345	0.392	543	406	637	410	27.49	1.14
240	0.0754	0.098	0.334	0.380	641	469	745	470	35.66	1.14
300	0.0601	0.079	0.319	0.365	735	526	846	524	44.57	1.14
400	0.0470	0.063	0.309	0.355	845	590	938	572	59.43	1.14
500	0.0366	0.051	0.298	0.344	974	755	999	772	74.29	1.14
630	0.0283	0.042	0.288	0.334	1118	846	1146	864	93.60	1.14

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

N2XSY 1 x (35 - 630) mm² 18/30 kV

Cu / XLPE / CTS / PVC

(Copper Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed)
Standard Specification : IEC 60502 - 2



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 Halogen

Note:

Conductor Shape

35 - 630 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 - 300 sqmm supplied in wooden drum @ 1000 meters

400 - 630 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.
mm ²	mm	kg/km
35	31.0	1,165
50	32.0	1,375
70	34.0	1,630
95	36.0	1,935
120	37.5	2,195
150	39.0	2,560
185	40.5	2,955
240	42.5	3,535
300	46.0	4,180
400	48.5	5,205
500	52.0	6,180
630	56.5	7,625

Application:

For power station and switchgear as well as station because of small bending radius in confined spaces indoors. As underground because of light weight where installation conditions are difficult.

Electrical Data

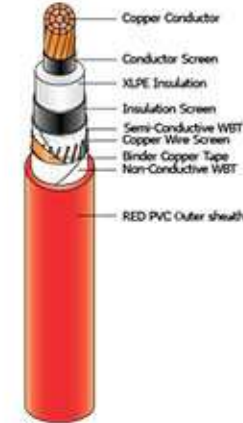
Conductor			Inductance		Current - Carrying Capacity				Short Circuit Current at 1 second	
Nom Cross Section Area mm ²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)	Trefoil formation	Flat formation	In air		In ground		Conductor Max. (kA)	Screen Max. (kA)
			(mH/km)	(mH/km)	Max. (Amp) at 30 °C	Max. (Amp) at 20 °C	Max. (Amp) at 30 °C	Max. (Amp) at 20 °C		
35	0.524	0.668	0.497	0.544	198	166	238	172	5.20	1.14
50	0.387	0.494	0.463	0.510	238	196	286	203	7.43	1.14
70	0.268	0.342	0.435	0.482	296	239	356	246	10.40	1.14
95	0.193	0.247	0.416	0.462	361	285	434	293	14.11	1.14
120	0.153	0.196	0.398	0.445	417	323	500	332	17.83	1.14
150	0.124	0.159	0.387	0.433	473	361	559	366	22.29	1.14
185	0.0991	0.128	0.375	0.422	543	406	637	410	27.49	1.14
240	0.0754	0.098	0.362	0.408	641	469	745	470	35.66	1.14
300	0.0601	0.079	0.346	0.392	735	526	846	524	44.57	1.14
400	0.0470	0.063	0.334	0.380	845	590	938	572	59.43	1.14
500	0.0366	0.051	0.321	0.367	974	755	999	772	74.29	1.14
630	0.0283	0.042	0.309	0.356	1118	846	1146	864	93.60	1.14

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

N2XSY 1 x (35 - 630) mm² 3.6/6 kV

Cu / XLPE / CWS / PVC

(Copper Conductor, XLPE Insulated, Copper Wire Screen, PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 3 & IEC 60502 - 2



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 Halogen

Note:

Conductor Shape

35 - 630 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 - 300 sqmm supplied in wooden drum @ 1000 meters

400 - 630 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Application:

For power station and switchgear as well as station because of small bending radius in confined spaces indoors. As underground because of light weight where installation conditions are difficult.

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm ²	mm	kg/km
35	24.5	915
50	25.5	1,095
70	27.5	1,320
95	29.0	1,585
120	30.5	1,820
150	32.0	2,245
185	33.5	2,610
240	35.5	3,150
300	39.0	3,755
400	42.0	4,835
500	46.0	5,760
630	50.0	7,130

Electrical Data

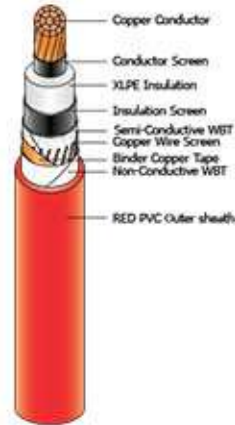
Conductor			Inductance		Current - Carrying Capacity				Short Circuit Current at 1 second	
Nom Cross Section Area mm ²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)	Trefoil formation	Flat formation	In air		In ground		Conductor Max. (kA)	Screen Max. (kA)
			(mH/km)	(mH/km)	Max. (Amp) at 30 °C	Max. (Amp) at 20 °C	Max. (Amp) at 30 °C	Max. (Amp) at 20 °C		
35	0.524	0.668	0.450	0.496	198	166	238	172	5.20	2.85
50	0.387	0.494	0.418	0.464	238	196	286	203	7.43	2.85
70	0.268	0.342	0.392	0.438	296	239	356	246	10.40	2.85
95	0.193	0.247	0.374	0.420	361	285	434	293	14.11	2.85
120	0.153	0.196	0.357	0.404	417	323	500	332	17.83	2.85
150	0.124	0.159	0.348	0.394	473	361	559	366	22.29	4.45
185	0.0991	0.128	0.337	0.383	543	406	637	410	27.49	4.45
240	0.0754	0.098	0.326	0.372	641	469	745	470	35.66	4.45
300	0.0601	0.079	0.314	0.360	735	526	846	524	44.57	4.45
400	0.0470	0.063	0.305	0.351	845	590	938	572	59.43	6.23
500	0.0366	0.051	0.295	0.342	974	755	999	772	74.29	6.23
630	0.0283	0.042	0.285	0.331	1118	846	1146	864	93.60	6.23

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

N2XSY 1 x (35 - 630) mm² 6/10 kV

Cu / XLPE / CWS / PVC

(Copper Conductor, XLPE Insulated, Copper Wire Screen, PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 3 & IEC 60502 - 2



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 Halogen

Note:

Conductor Shape

35 - 630 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 - 300 sqmm supplied in wooden drum @ 1000 meters

400 - 630 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.
mm ²	mm	kg/km
35	26.0	985
50	27.5	1,175
70	29.5	1,405
95	31.0	1,675
120	32.5	1,910
150	34.0	2,335
185	35.0	2,705
240	37.0	3,240
300	40.0	3,835
400	43.0	4,890
500	46.0	5,790
630	51.0	7,160

Application:

For power station and switchgear as well as station because of small bending radius in confined spaces indoors. As underground because of light weight where installation conditions are difficult.

Electrical Data

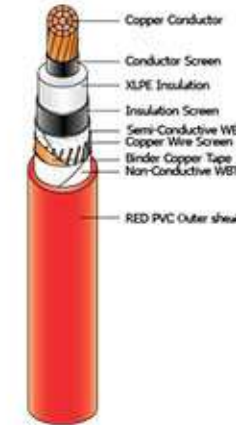
Conductor			Inductance		Current - Carrying Capacity				Short Circuit Current at 1 second	
Nom Cross Section Area mm ²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)	Trefoil formation	Flat formation	In air		In ground		Conductor Max. (kA)	Screen Max. (kA)
			(mH/km)	(mH/km)	Max. (Amp) at 30 °C	Max. (Amp) at 20 °C	Max. (Amp) at 30 °C	Max. (Amp) at 20 °C		
35	0.524	0.668	0.465	0.511	198	166	238	172	5.20	2.85
50	0.387	0.494	0.432	0.478	238	196	286	203	7.43	2.85
70	0.268	0.342	0.406	0.452	296	239	356	246	10.40	2.85
95	0.193	0.247	0.387	0.433	361	285	434	293	14.11	2.85
120	0.153	0.196	0.370	0.416	417	323	500	332	17.83	2.85
150	0.124	0.159	0.359	0.405	473	361	559	366	22.29	4.45
185	0.0991	0.128	0.348	0.394	543	406	637	410	27.49	4.45
240	0.0754	0.098	0.336	0.382	641	469	745	470	35.66	4.45
300	0.0601	0.079	0.320	0.366	735	526	846	524	44.57	4.45
400	0.0470	0.063	0.308	0.355	845	590	938	572	59.43	6.23
500	0.0366	0.051	0.297	0.343	974	755	999	772	74.29	6.23
630	0.0283	0.042	0.286	0.333	1118	846	1146	864	93.60	6.23

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

N2XSY 1 x (35 - 630) mm² 8.7/15 kV

Cu / XLPE / CWS / PVC

(Copper Conductor, XLPE Insulated, Copper Wire Screen, PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 3 & IEC 60502 - 2



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 Halogen

Note:

Conductor Shape

35 - 630 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 - 300 sqmm supplied in wooden drum @ 1000 meters

400 - 630 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Application:

For power station and switchgear as well as station because of small bending radius in confined spaces indoors. As underground because of light weight where installation conditions are difficult.

Electrical Data

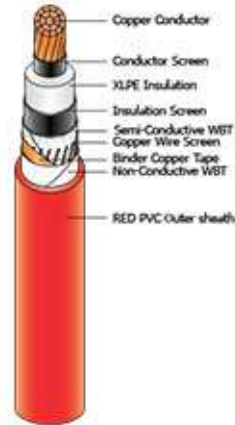
Conductor			Inductance		Current - Carrying Capacity				Short Circuit Current at 1 second	
Nom Cross Section Area mm ²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)	Trefoil formation	Flat formation	In air		In ground		Conductor Max. (kA)	Screen Max. (kA)
			(mH/km)	(mH/km)	Max. (Amp) at 30 °C	Max. (Amp) at 20 °C	Max. (Amp) at 30 °C	Max. (Amp) at 20 °C		
35	0.524	0.668	0.483	0.528	198	166	238	172	5.20	2.85
50	0.387	0.494	0.448	0.495	238	196	286	203	7.43	2.85
70	0.268	0.342	0.421	0.468	296	239	356	246	10.40	2.85
95	0.193	0.247	0.402	0.448	361	285	434	293	14.11	2.85
120	0.153	0.196	0.384	0.430	417	323	500	332	17.83	2.85
150	0.124	0.159	0.372	0.418	473	361	559	366	22.29	4.45
185	0.0991	0.128	0.361	0.407	543	406	637	410	27.49	4.45
240	0.0754	0.098	0.348	0.394	641	469	745	470	35.66	4.45
300	0.0601	0.079	0.331	0.378	735	526	846	524	44.57	4.45
400	0.0470	0.063	0.319	0.366	845	590	938	572	59.43	6.23
500	0.0366	0.051	0.307	0.353	974	755	999	772	74.29	6.23
630	0.0283	0.042	0.297	0.343	1118	846	1146	864	93.60	6.23

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

N2XSY 1 x (35 - 630) mm² 12/20 kV

Cu / XLPE / CWS / PVC

(Copper Conductor, XLPE Insulated, Copper Wire Screen, PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 3 & IEC 60502 - 2



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 Halogen

Note:

Conductor Shape

35 - 630 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

35 - 300 sqmm supplied in wooden drum @ 1000 meters

400 - 630 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.
mm ²	mm	kg/km
35	31.0	1,180
50	32.0	1,375
70	34.0	1,615
95	35.5	1,900
120	37.0	2,145
150	38.0	2,580
185	40.0	2,955
240	42.0	3,505
300	44.5	4,115
400	47.0	5,190
500	51.0	6,110
630	55.0	7,535

Application:

For power station and switchgear as well as station because of small bending radius in confined spaces indoors. As underground because of light weight where installation conditions are difficult.

Electrical Data

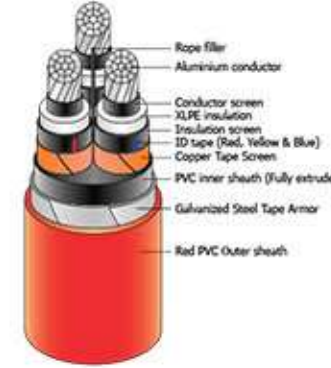
Nom Cross Section Area mm ²	Conductor		Inductance		Current - Carrying Capacity				Short Circuit Current at 1 second	
	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)	Trefoil formation (mH/km)	Flat formation (mH/km)	In air Max. (Amp) at 30 °C		In ground Max. (Amp) at 20 °C		Conductor Max. (kA)	Screen Max. (kA)
					198	166	238	172		
35	0.524	0.668	0.497	0.543	198	166	238	172	5.20	2.85
50	0.387	0.494	0.462	0.509	238	196	286	203	7.43	2.85
70	0.268	0.342	0.434	0.480	296	239	356	246	10.40	2.85
95	0.193	0.247	0.414	0.460	361	285	434	293	14.11	2.85
120	0.153	0.196	0.396	0.442	417	323	500	332	17.83	2.85
150	0.124	0.159	0.384	0.430	473	361	559	366	22.29	4.45
185	0.0991	0.128	0.372	0.418	543	406	637	410	27.49	4.45
240	0.0754	0.098	0.358	0.404	641	469	745	470	35.66	4.45
300	0.0601	0.079	0.341	0.387	735	526	846	524	44.57	4.45
400	0.0470	0.063	0.328	0.375	845	590	938	572	59.43	6.23
500	0.0366	0.051	0.315	0.362	974	755	999	772	74.29	6.23
630	0.0283	0.042	0.304	0.351	1118	846	1146	864	93.60	6.23

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

NA2XSEBY 3 x (50 - 400) mm² 3.6/6 kV

AL / XLPE / CTS / PVC / DSTA / PVC

(Aluminium Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed, Double Steel Tape Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

50 - 400 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

50 - 95 sqmm supplied in wooden drum @ 1000 meters

120 - 400 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Application:

For installation indoor, in ground direct buried, for power station and switchgear, if there is a risk that low mechanical damage may occur.

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm ²	mm	kg/km
50	45.0	2,835
70	49.0	3,360
95	53.0	3,895
120	56.5	4,505
150	59.5	5,040
185	63.0	5,695
240	68.0	6,635
300	76.0	8,150
400	84.5	10,520

Electrical Data

Nom Cross Section Area mm ²	Conductor		Inductance (mH/km)	Current - Carrying Capacity		Short Circuit Current at 1 second	
	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
			50				
70	0.443	0.568	0.310	196	171	6.87	1.03
95	0.320	0.411	0.298	238	204	9.32	1.03
120	0.253	0.325	0.286	274	232	11.77	1.03
150	0.206	0.265	0.279	309	259	14.72	1.03
185	0.164	0.212	0.272	354	293	18.15	1.03
240	0.125	0.162	0.266	415	338	23.55	1.37
300	0.100	0.130	0.259	472	380	29.44	1.37
400	0.0778	0.102	0.255	545	432	39.25	1.37

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

NA2XSEBY 3 x (50 - 400) mm² 6/10 kV

AL / XLPE / CTS / PVC / DSTA / PVC

(Aluminium Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed, Double Steel Tape Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

50 - 400 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

50 - 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.
mm ²	mm	kg/km
50	49.0	3,285
70	53.5	3,845
95	57.5	4,465
120	61.0	5,050
150	64.0	5,610
185	67.5	6,290
240	72.0	7,195
300	79.0	8,615
400	86.5	10,870

Application:

For installation indoor, in ground direct buried, for power station and switchgear, if there is a risk that low mechanical damage may occur.

NA2XSEBY 3 x (50 - 400) mm² 8.7/15 kV

AL / XLPE / CTS / PVC / DSTA / PVC

(Aluminium Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed, Double Steel Tape Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

50 - 400 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

50 - 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.
mm ²	mm	kg/km
50	54.5	3,885
70	59.0	4,540
95	63.0	5,140
120	66.5	5,760
150	69.5	6,345
185	73.0	7,135
240	77.5	8,095
300	85.5	10,240
400	91.5	11,860

Application:

For installation indoor, in ground direct buried, for power station and switchgear, if there is a risk that low mechanical damage may occur.

Electrical Data

Nom Cross Section Area mm ²	Conductor		Inductance (mH/km)	Current - Carrying Capacity		Short Circuit Current at 1 second	
	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
50	0.641	0.822	0.350	159	140	4.91	1.03
70	0.443	0.568	0.330	196	171	6.87	1.03
95	0.320	0.411	0.316	238	204	9.32	1.03
120	0.253	0.325	0.303	274	232	11.77	1.03
150	0.206	0.265	0.295	309	259	14.72	1.03
185	0.164	0.212	0.287	354	293	18.15	1.03
240	0.125	0.162	0.279	415	338	23.55	1.37
300	0.100	0.130	0.268	472	380	29.44	1.37
400	0.0778	0.102	0.260	545	432	39.25	1.37

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

Electrical Data

Nom Cross Section Area mm ²	Conductor		Inductance (mH/km)	Current - Carrying Capacity		Short Circuit Current at 1 second	
	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
50	0.641	0.822	0.374	159	140	4.91	1.03
70	0.443	0.568	0.352	196	171	6.87	1.03
95	0.320	0.411	0.337	238	204	9.32	1.03
120	0.253	0.325	0.322	274	232	11.77	1.03
150	0.206	0.265	0.313	309	259	14.72	1.03
185	0.164	0.212	0.304	354	293	18.15	1.03
240	0.125	0.162	0.295	415	338	23.55	1.37
300	0.100	0.130	0.282	472	380	29.44	1.37
400	0.0778	0.102	0.273	545	432	39.25	1.37

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

NA2XSEBY 3 x (50 - 400) mm² 12/20 kV

AL / XLPE / CTS / PVC / DSTA / PVC

(Aluminium Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed, Double Steel Tape Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm ²	mm	kg/km
50	60.0	4,530
70	64.0	5,170
95	67.5	5,805
120	71.0	6,450
150	74.5	7,140
185	78.0	7,890
240	84.0	9,610
300	90.5	11,130
400	97.0	12,910

Special Features on Request:

- Oil Resistance
- UV Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

50 - 400 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

50 - 400 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%



Application:

For installation indoor, in ground direct buried, for power station and switchgear, if there is a risk that low mechanical damage may occur.

Electrical Data

Nom Cross Section Area mm ²	Conductor		Inductance (mH/km)	Current - Carrying Capacity		Short Circuit Current at 1 second	
	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
50	0.641	0.822	0.394	159	140	4.91	1.03
70	0.443	0.568	0.370	196	171	6.87	1.03
95	0.320	0.411	0.353	238	204	9.32	1.03
120	0.253	0.325	0.338	274	232	11.77	1.03
150	0.206	0.265	0.328	309	259	14.72	1.03
185	0.164	0.212	0.319	354	293	18.15	1.03
240	0.125	0.162	0.308	415	338	23.55	1.37
300	0.100	0.130	0.294	472	380	29.44	1.37
400	0.0778	0.102	0.285	545	432	39.25	1.37

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

NA2XSEBY 3 x (50 - 400) mm² 18/30 kV

AL / XLPE / CTS / PVC / DSTA / PVC

(Aluminium Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed, Double Steel Tape Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm ²	mm	kg/km
50	72.0	6,195
70	76.5	7,005
95	81.5	8,425
120	85.0	9,185
150	88.0	9,895
185	91.5	10,750
240	96.5	11,985
300	103.0	13,655
400	109.0	15,480

Special Features on Request:

- Oil Resistance
- UV Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite

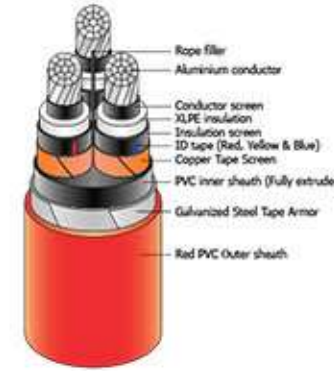
Note:

Conductor Shape

50 - 400 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

50 - 400 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%



Application:

For installation indoor, in ground direct buried, for power station and switchgear, if there is a risk that low mechanical damage may occur.

Electrical Data

Nom Cross Section Area mm ²	Conductor		Inductance (mH/km)	Current - Carrying Capacity		Short Circuit Current at 1 second	
	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
50	0.641	0.822	0.436	159	140	4.91	1.03
70	0.443	0.568	0.409	196	171	6.87	1.03
95	0.320	0.411	0.390	238	204	9.32	1.03
120	0.253	0.325	0.373	274	232	11.77	1.03
150	0.206	0.265	0.362	309	259	14.72	1.03
185	0.164	0.212	0.351	354	293	18.15	1.03
240	0.125	0.162	0.338	415	338	23.55	1.37
300	0.100	0.130	0.322	472	380	29.44	1.37
400	0.0778	0.102	0.310	545	432	39.25	1.37

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

NA2XSEFGbY 3 x (50 - 400) mm² 3.6/6 kV

AL / XLPE / CTS / PVC / GSFA / PVC

(Aluminium Conductor, XLPE Insulated, Copper Tape Screen, PVC Inner Sheathed, Galvanized Steel Flat Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm ²	mm	kg/km
50	45.0	3,135
70	49.0	3,690
95	53.0	4,250
120	57.0	4,890
150	60.0	5,445
185	63.0	6,125
240	68.5	7,105
300	76.0	8,680
400	83.5	10,370

Special Features on Request:

- Oil Resistance
- UV Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

50 - 400 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

50 - 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.
mm ²	mm	kg/km
50	49.5	3,615
70	53.5	4,205
95	57.5	4,855
120	61.0	5,465
150	64.0	6,050
185	67.5	6,755
240	72.0	7,695
300	79.0	9,165
400	85.5	10,715

Special Features on Request:

- Oil Resistance
- UV Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

50 - 400 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

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.
mm ²	mm	kg/km
50	45.0	3,135
70	49.0	3,690
95	53.0	4,250
120	57.0	4,890
150	60.0	5,445
185	63.0	6,125
240	68.5	7,105
300	76.0	8,680
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240	68.5	7,105
300	76.0	8,680
400	83.5	10,370

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95	53.0	4,250
120	57.0	4,890
150	60.0	5,445
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240	68.5	7,105
300	76.0	8,680
400	83.5	10,370

Construction Data

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Area	approx.	approx.
mm ²	mm	kg/km
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185	67.5	6,755
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Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm ²	mm	kg/km
50	45.0	3,135
70	49.0	3,690
95	53.0	4,250
120	57.0	4,890
150	60.0	5,445
185	63.0	6,125
240	68.5	7,105
300	76.0	8,680
400	83.5	10,370

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm ²	mm	kg/km
50	49.5	3,615
70	53.5	4,205
95	57.5	4,855
120	61.0	5,465
150	64.0	6,050
185	67.5	6,755
240	72.0	7,695
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400	85.5	10,715

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm ²	mm	kg/km
50	45.0	3,135
70	49.0	3,690
95	53.0	4,250
120	57.0	4,890
150	60.0	5,445
185	63.0	6,125
240	68.5	7,105
300	76.0	8,680
400	83.5	10,370

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm ²	mm	kg/km
50	49.5	3,615
70	53.5	4,205
95	57.5	4,855
120	61.0	5,465
150	64.0	6,050
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240	72.0	7,695
300	79.0	9,165
400	85.5	10,715

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm ²	mm	kg/km
50	45.0	3,135
70	49.0	3,690
95	53.0	4,250
120	57.0	4,890
150	60.0	5,445
185	63.0	6,125
240	68.5	7,105
300	76.0	8,680
400	83.5	10,370

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	

NA2XSEFGbY 3 x (50 - 400) mm² 8.7/15 kV

AL / XLPE / CTS / PVC / GSFA / PVC

(Aluminium Conductor, XLPE Insulated, Copper Tape Screen, PVC Inner Sheathed, Galvanized Steel Flat Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

50 - 400 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

50 - 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.
mm ²	mm	kg/km
50	55.0	4,255
70	59.5	4,945
95	63.0	5,575
120	66.5	6,215
150	69.5	6,825
185	73.5	7,645
240	78.0	8,635
300	84.5	10,090
400	90.5	11,700

Application:

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

Electrical Data

Nom Cross Section Area mm ²	Conductor		Inductance (mH/km)	Current - Carrying Capacity		Short Circuit Current at 1 second	
	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
50	0.641	0.822	0.374	159	140	4.91	1.03
70	0.443	0.568	0.352	196	171	6.87	1.03
95	0.320	0.411	0.337	238	204	9.32	1.03
120	0.253	0.325	0.322	274	232	11.77	1.03
150	0.206	0.265	0.313	309	259	14.72	1.03
185	0.164	0.212	0.304	354	293	18.15	1.03
240	0.125	0.162	0.295	415	338	23.55	1.37
300	0.100	0.130	0.282	472	380	29.44	1.37
400	0.0778	0.102	0.273	545	432	39.25	1.37

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

NA2XSEFGbY 3 x (50 - 400) mm² 12/20 kV

AL / XLPE / CTS / PVC / GSFA / PVC

(Aluminium Conductor, XLPE Insulated, Copper Tape Screen, PVC Inner Sheathed, Galvanized Steel Flat Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

50 - 400 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

50 - 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.
mm ²	mm	kg/km
50	60.0	4,940
70	64.0	5,610
95	68.0	6,270
120	71.5	6,945
150	74.5	7,660
185	78.0	8,435
240	83.0	9,465
300	89.5	10,976
400	96.0	12,740

Application:

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

Electrical Data

Nom Cross Section Area mm ²	Conductor		Inductance (mH/km)	Current - Carrying Capacity		Short Circuit Current at 1 second	
	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
50	0.641	0.822	0.394	159	140	4.91	1.03
70	0.443	0.568	0.370	196	171	6.87	1.03
95	0.320	0.411	0.353	238	204	9.32	1.03
120	0.253	0.325	0.338	274	232	11.77	1.03
150	0.206	0.265	0.328	309	259	14.72	1.03
185	0.164	0.212	0.319	354	293	18.15	1.03
240	0.125	0.162	0.308	415	338	23.55	1.37
300	0.100	0.130	0.294	472	380	29.44	1.37
400	0.0778	0.102	0.285	545	432	39.25	1.37

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

NA2XSEFGbY 3 x (50 - 400) mm² 18/30 kV

AL / XLPE / CTS / PVC / GSFA / PVC

(Aluminium Conductor, XLPE Insulated, Copper Tape Screen, PVC Inner Sheathed, Galvanized Steel Flat Armor, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

50 - 400 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

50 - 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.
mm ²	mm	kg/km
50	72.0	6,695
70	76.5	7,535
95	80.5	8,280
120	84.0	9,035
150	87.0	9,740
185	90.5	10,590
240	95.5	11,820
300	102.0	13,480
400	108.0	15,290

Application:

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

Electrical Data

Nom Cross Section Area mm ²	Conductor		Inductance (mH/km)	Current - Carrying Capacity		Short Circuit Current at 1 second	
	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
50	0.641	0.822	0.436	159	140	4.91	1.03
70	0.443	0.568	0.409	196	171	6.87	1.03
95	0.320	0.411	0.390	238	204	9.32	1.03
120	0.253	0.325	0.373	274	232	11.77	1.03
150	0.206	0.265	0.362	309	259	14.72	1.03
185	0.164	0.212	0.351	354	293	18.15	1.03
240	0.125	0.162	0.338	415	338	23.55	1.37
300	0.100	0.130	0.322	472	380	29.44	1.37
400	0.0778	0.102	0.310	545	432	39.25	1.37

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

NA2XSEY 3 x (50 - 400) mm² 3.6/6 kV

AL / XLPE / CTS / PVC

(Aluminium Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

50 - 400 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

50 - 95 sqmm supplied in wooden drum @ 1000 meters
120 - 400 sqmm supplied in wooden drum on available length
Length Tolerance per drum ± 2%

Application:

Indoors, cable trunking, outdoors and in ground; For power stations, industry and switchgear.

Electrical Data

Nom Cross Section Area mm ²	Conductor		Inductance (mH/km)	Current - Carrying Capacity		Short Circuit Current at 1 second	
	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
50	0.641	0.822	0.328	158	140	4.91	1.03
70	0.443	0.568	0.310	196	171	6.87	1.03
95	0.320	0.411	0.298	236	203	9.32	1.03
120	0.253	0.325	0.286	273	232	11.77	1.03
150	0.206	0.265	0.279	309	260	14.72	1.03
185	0.164	0.212	0.272	355	294	18.15	1.03
240	0.125	0.162	0.266	415	340	23.55	1.37
300	0.100	0.130	0.259	475	384	29.44	1.37
400	0.0778	0.102	0.255	552	438	39.25	1.37

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

NA2XSEY 3 x (50 - 400) mm² 6/10 kV

AL / XLPE / CTS / PVC

(Aluminium Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

50 - 400 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

50 - 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.
mm ²	mm	kg/km
50	47.0	2,595
70	51.0	3,090
95	55.5	3,650
120	59.0	4,185
150	62.0	4,695
185	65.0	5,325
240	70.0	6,165
300	76.0	7,480
400	83.0	8,895

Application:

Indoors, cable trunking, outdoors and in ground; For power stations, industry and switchgear.

Electrical Data

Nom Cross Section Area mm ²	Conductor		Inductance (mH/km)	Current - Carrying Capacity		Short Circuit Current at 1 second	
	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
50	0.641	0.822	0.350	158	140	4.91	1.03
70	0.443	0.568	0.330	196	171	6.87	1.03
95	0.320	0.411	0.316	236	203	9.32	1.03
120	0.253	0.325	0.303	273	232	11.77	1.03
150	0.206	0.265	0.295	309	260	14.72	1.03
185	0.164	0.212	0.287	355	294	18.15	1.03
240	0.125	0.162	0.279	415	340	23.55	1.37
300	0.100	0.130	0.268	475	384	29.44	1.37
400	0.0778	0.102	0.260	552	438	39.25	1.37

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

NA2XSEY 3 x (50 - 400) mm² 8.7/15 kV

AL / XLPE / CTS / PVC

(Aluminium Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

50 - 400 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

50 - 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.
mm ²	mm	kg/km
50	53.0	3,155
70	57.5	3,750
95	61.0	4,300
120	64.5	4,870
150	67.5	5,415
185	71.5	6,150
240	76.0	7,045
300	82.5	8,355
400	88.5	9,835

Application:

Indoors, cable trunking, outdoors and in ground; For power stations, industry and switchgear.

Electrical Data

Nom Cross Section Area mm ²	Conductor		Inductance (mH/km)	Current - Carrying Capacity		Short Circuit Current at 1 second	
	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
50	0.641	0.822	0.374	158	140	4.91	1.03
70	0.443	0.568	0.352	196	171	6.87	1.03
95	0.320	0.411	0.337	236	203	9.32	1.03
120	0.253	0.325	0.322	273	232	11.77	1.03
150	0.206	0.265	0.313	309	260	14.72	1.03
185	0.164	0.212	0.304	355	294	18.15	1.03
240	0.125	0.162	0.295	415	340	23.55	1.37
300	0.100	0.130	0.282	475	384	29.44	1.37
400	0.0778	0.102	0.273	552	438	39.25	1.37

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

NA2XSEY 3 x (50 - 400) mm² 12/20 kV

AL / XLPE / CTS / PVC

(Aluminium Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

50 - 400 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

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.
mm ²	mm	kg/km
50	58.0	3,730
70	62.0	4,315
95	66.0	4,895
120	69.5	5,495
150	72.5	6,135
185	76.0	6,835
240	81.0	7,765
300	87.5	9,135
400	94.0	10,765

Application:

Indoors, cable trunking, outdoors and in ground; For power stations, industry and switchgear.

Electrical Data

Nom Cross Section Area mm ²	Conductor		Inductance (mH/km)	Current - Carrying Capacity		Short Circuit Current at 1 second	
	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
50	0.641	0.822	0.394	158	140	4.91	1.03
70	0.443	0.568	0.370	196	171	6.87	1.03
95	0.320	0.411	0.353	236	203	9.32	1.03
120	0.253	0.325	0.338	273	232	11.77	1.03
150	0.206	0.265	0.328	309	260	14.72	1.03
185	0.164	0.212	0.319	355	294	18.15	1.03
240	0.125	0.162	0.308	415	340	23.55	1.37
300	0.100	0.130	0.294	475	384	29.44	1.37
400	0.0778	0.102	0.285	552	438	39.25	1.37

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

NA2XSEY 3 x (50 - 400) mm² 18/30 kV

AL / XLPE / CTS / PVC

(Aluminium Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed)
Standard Specification : IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

50 - 400 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

50 - 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.
mm ²	mm	kg/km
50	70.0	5,165
70	74.5	5,905
95	78.0	6,565
120	81.5	7,245
150	84.5	7,885
185	88.0	8,655
240	93.0	9,775
300	99.5	11,285
400	105.5	12,965

Application:

Indoors, cable trunking, outdoors and in ground; For power stations, industry and switchgear.

Electrical Data

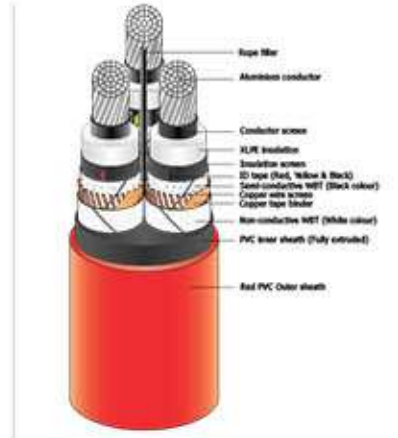
Nom Cross Section Area mm ²	Conductor		Inductance (mH/km)	Current - Carrying Capacity		Short Circuit Current at 1 second	
	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
50	0.641	0.822	0.436	158	140	4.91	1.03
70	0.443	0.568	0.409	196	171	6.87	1.03
95	0.320	0.411	0.390	236	203	9.32	1.03
120	0.253	0.325	0.373	273	232	11.77	1.03
150	0.206	0.265	0.362	309	260	14.72	1.03
185	0.164	0.212	0.351	355	294	18.15	1.03
240	0.125	0.162	0.338	415	340	23.55	1.37
300	0.100	0.130	0.322	475	384	29.44	1.37
400	0.0778	0.102	0.310	552	438	39.25	1.37

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

NA2XSEY 3 x (50 - 400) mm² 3.6/6 kV

AL / XLPE / CWS / PVC

(Aluminium Conductor, XLPE Insulated, Copper Wire Screen, PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 4 & IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

50 - 400 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

50 - 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.
mm ²	mm	kg/km
50	51.0	3,045
70	55.0	3,505
95	59.0	4,075
120	62.5	4,605
150	65.5	5,375
185	69.0	5,990
240	74.5	6,965
300	82.0	8,335
400	89.0	10,175

Application:

Indoors, cable trunking, outdoors and in ground; For power stations, industry and switchgear.

Electrical Data

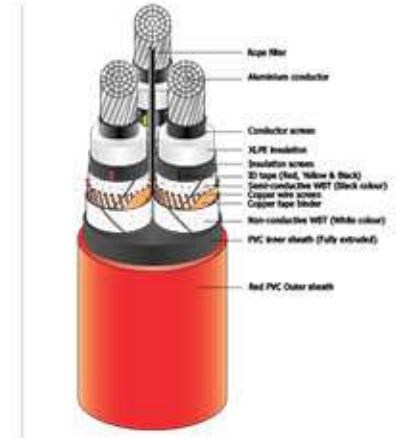
Nom Cross Section Area mm ²	Conductor		Inductance (mH/km)	Current - Carrying Capacity		Short Circuit Current at 1 second	
	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
50	0.641	0.822	0.364	158	140	4.91	2.85
70	0.443	0.568	0.343	196	171	6.87	2.85
95	0.320	0.411	0.328	236	203	9.32	2.85
120	0.253	0.325	0.314	273	232	11.77	2.85
150	0.206	0.265	0.306	309	260	14.72	2.85
185	0.164	0.212	0.297	355	294	18.15	4.45
240	0.125	0.162	0.289	415	340	23.55	4.45
300	0.100	0.130	0.282	475	384	29.44	4.45
400	0.0778	0.102	0.274	552	438	39.25	6.23

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

NA2XSEY 3 x (50 - 400) mm² 6/10 kV

AL / XLPE / CWS / PVC

(Aluminium Conductor, XLPE Insulated, Copper Wire Screen, PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 4 & IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

50 - 400 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

50 - 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.
mm ²	mm	kg/km
50	55.5	3,500
70	60.0	4,045
95	63.5	4,575
120	67.0	5,125
150	70.0	5,920
185	73.5	6,565
240	78.5	7,525
300	85.0	8,805
400	91.0	10,545

Application:

Indoors, cable trunking, outdoors and in ground; For power stations, industry and switchgear.

Electrical Data

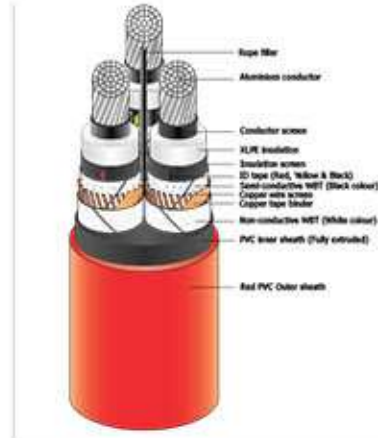
Nom Cross Section Area mm ²	Conductor		Inductance (mH/km)	Current - Carrying Capacity		Short Circuit Current at 1 second	
	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
50	0.641	0.822	0.383	158	140	4.91	2.85
70	0.443	0.568	0.360	196	171	6.87	2.85
95	0.320	0.411	0.344	236	203	9.32	2.85
120	0.253	0.325	0.329	273	232	11.77	2.85
150	0.206	0.265	0.320	309	260	14.72	2.85
185	0.164	0.212	0.310	355	294	18.15	4.45
240	0.125	0.162	0.300	415	340	23.55	4.45
300	0.100	0.130	0.287	475	384	29.44	4.45
400	0.0778	0.102	0.278	552	438	39.25	6.23

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

NA2XSEY 3 x (50 - 400) mm² 8.7/15 kV

AL / XLPE / CWS / PVC

(Aluminium Conductor, XLPE Insulated, Copper Wire Screen, PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 4 & IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

50 - 400 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

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.
mm ²	mm	kg/km
50	60.5	4,005
70	65.0	4,625
95	68.5	5,185
120	73.0	5,865
150	76.0	6,690
185	79.0	7,375
240	84.0	8,315
300	90.5	9,665
400	97.0	11,545

Application:

Indoors, cable trunking, outdoors and in ground; For power stations, industry and switchgear.

Electrical Data

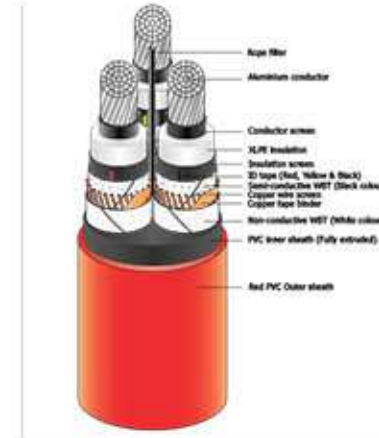
Nom Cross Section Area mm ²	Conductor		Inductance (mH/km)	Current - Carrying Capacity		Short Circuit Current at 1 second	
	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
50	0.641	0.822	0.404	158	140	4.91	2.85
70	0.443	0.568	0.379	196	171	6.87	2.85
95	0.320	0.411	0.362	236	203	9.32	2.85
120	0.253	0.325	0.346	273	232	11.77	2.85
150	0.206	0.265	0.336	309	260	14.72	2.85
185	0.164	0.212	0.326	355	294	18.15	4.45
240	0.125	0.162	0.315	415	340	23.55	4.45
300	0.100	0.130	0.301	475	384	29.44	4.45
400	0.0778	0.102	0.291	552	438	39.25	6.23

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

NA2XSEY 3 x (50 - 400) mm² 12/20 kV

AL / XLPE / CWS / PVC

(Aluminium Conductor, XLPE Insulated, Copper Wire Screen, PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 4 & IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

50 - 400 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

50 - 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.
mm ²	mm	kg/km
50	68.0	5,570
70	72.5	6,290
95	76.0	6,945
120	79.5	7,650
150	84.5	9,335
185	87.5	10,130
240	92.5	11,270
300	99.5	12,885
400	106.0	15,045

Application:

Indoors, cable trunking, outdoors and in ground; For power stations, industry and switchgear.

Electrical Data

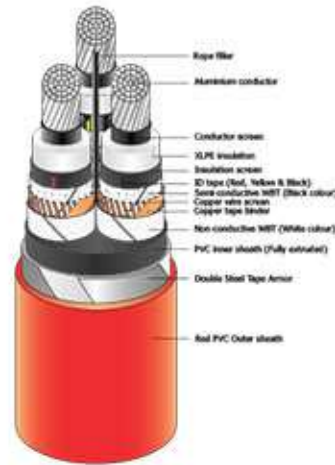
Nom Cross Section Area mm ²	Conductor		Inductance (mH/km)	Current - Carrying Capacity		Short Circuit Current at 1 second	
	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
50	0.641	0.822	0.421	158	140	4.91	2.85
70	0.443	0.568	0.395	196	171	6.87	2.85
95	0.320	0.411	0.377	236	203	9.32	2.85
120	0.253	0.325	0.360	273	232	11.77	2.85
150	0.206	0.265	0.350	309	260	14.72	2.85
185	0.164	0.212	0.339	355	294	18.15	4.45
240	0.125	0.162	0.327	415	340	23.55	4.45
300	0.100	0.130	0.312	475	384	29.44	4.45
400	0.0778	0.102	0.301	552	438	39.25	6.23

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

NA2XSEYBY 3 x (50 - 400) mm² 3.6/6 kV

AL / XLPE / CWS / PVC / DSTA / PVC

(Aluminium Conductor, PVC Insulated, Copper Wire Screen, PVC Inner Sheathed / DSTA / PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 4 & IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

50 - 400 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

50 - 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.
mm ²	mm	kg/km
50	53.0	3,795
70	57.5	4,370
95	61.5	4,950
120	64.5	5,525
150	68.0	6,405
185	72.0	7,115
240	78.5	8,795
300	86.0	10,390
400	93.5	12,495

Application:

For installation indoors, in ground direct buried. For power station and switchgear, if there is a risk that low mechanical damage may occur.

Electrical Data

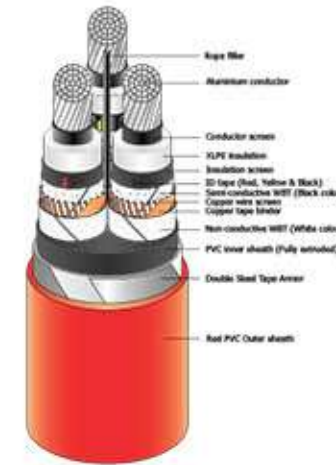
Nom Cross Section Area mm ²	Conductor		Inductance (mH/km)	Current - Carrying Capacity		Short Circuit Current at 1 second	
	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
50	0.641	0.822	0.364	159	140	4.91	2.85
70	0.443	0.568	0.343	196	171	6.87	2.85
95	0.320	0.411	0.328	238	204	9.32	2.85
120	0.253	0.325	0.314	274	232	11.77	2.85
150	0.206	0.265	0.306	309	259	14.72	2.85
185	0.164	0.212	0.297	354	293	18.15	4.45
240	0.125	0.162	0.289	415	338	23.55	4.45
300	0.100	0.130	0.282	472	380	29.44	4.45
400	0.0778	0.102	0.274	545	432	39.25	6.23

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

NA2XSEYBY 3 x (50 - 400) mm² 6/10 kV

AL / XLPE / CWS / PVC / DSTA / PVC

(Aluminium Conductor, PVC Insulated, Copper Wire Screen, PVC Inner Sheathed / DSTA / PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 4 & IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape

50 - 400 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

50 - 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.
mm ²	mm	kg/km
50	57.5	4,295
70	62.0	4,895
95	66.0	5,545
120	69.5	6,150
150	72.5	7,025
185	76.0	7,765
240	82.5	9,495
300	89.0	10,945
400	95.5	12,885

Application:

For installation indoors, in ground direct buried. For power station and switchgear, if there is a risk that low mechanical damage may occur.

Electrical Data

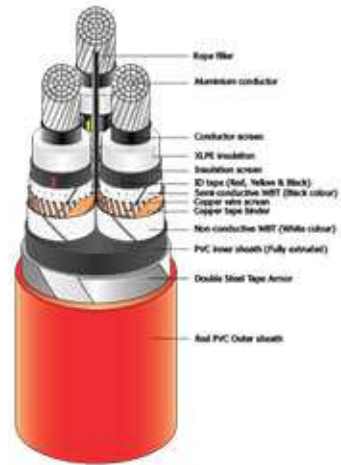
Nom Cross Section Area mm ²	Conductor		Inductance (mH/km)	Current - Carrying Capacity		Short Circuit Current at 1 second	
	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
50	0.641	0.822	0.383	159	140	4.91	2.85
70	0.443	0.568	0.360	196	171	6.87	2.85
95	0.320	0.411	0.344	238	204	9.32	2.85
120	0.253	0.325	0.329	274	232	11.77	2.85
150	0.206	0.265	0.320	309	259	14.72	2.85
185	0.164	0.212	0.310	354	293	18.15	4.45
240	0.125	0.162	0.300	415	338	23.55	4.45
300	0.100	0.130	0.287	472	380	29.44	4.45
400	0.0778	0.102	0.278	545	432	39.25	6.23

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

NA2XSEYBY 3 x (50 - 400) mm² 8.7/15 kV

AL / XLPE / CWS / PVC / DSTA / PVC

(Aluminium Conductor, PVC Insulated, Copper Wire Screen, PVC Inner Sheathed / DSTA / PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 4 & IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape
50 - 400 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

50 - 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.
mm ²	mm	kg/km
50	63.0	4,965
70	67.5	5,615
95	71.5	6,270
120	75.0	6,910
150	78.0	7,850
185	82.0	8,630
240	88.0	10,420
300	94.5	11,975
400	101.0	13,980

Application:

For installation indoors, in ground direct buried. For power station and switchgear, if there is a risk that low mechanical damage may occur.

Electrical Data

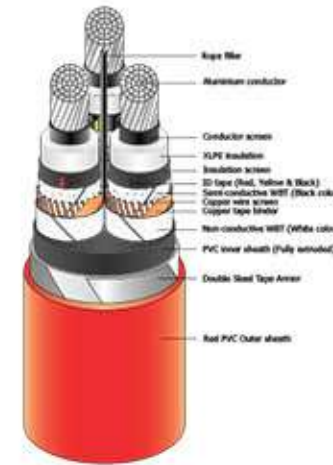
Nom Cross Section Area mm ²	Conductor		Inductance (mH/km)	Current - Carrying Capacity		Short Circuit Current at 1 second	
	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
50	0.641	0.822	0.404	159	140	4.91	2.85
70	0.443	0.568	0.379	196	171	6.87	2.85
95	0.320	0.411	0.362	238	204	9.32	2.85
120	0.253	0.325	0.346	274	232	11.77	2.85
150	0.206	0.265	0.336	309	259	14.72	2.85
185	0.164	0.212	0.326	354	293	18.15	4.45
240	0.125	0.162	0.315	415	338	23.55	4.45
300	0.100	0.130	0.301	472	380	29.44	4.45
400	0.0778	0.102	0.291	545	432	39.25	6.23

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

NA2XSEYBY 3 x (50 - 400) mm² 12/20 kV

AL / XLPE / CWS / PVC / DSTA / PVC

(Aluminium Conductor, PVC Insulated, Copper Wire Screen, PVC Inner Sheathed / DSTA / PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 4 & IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape
50 - 400 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

50 - 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.
mm ²	mm	kg/km
50	68.0	5,570
70	72.5	6,290
95	76.0	6,945
120	79.5	7,650
150	84.5	9,335
185	87.5	10,130
240	92.5	11,270
300	99.5	12,885
400	106.0	15,045

Application:

For installation indoors, in ground direct buried. For power station and switchgear, if there is a risk that low mechanical damage may occur.

Electrical Data

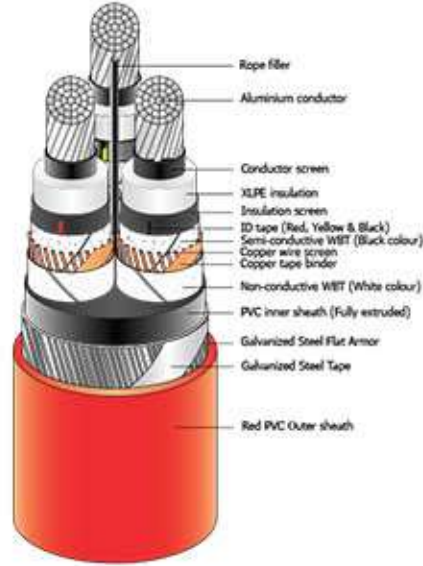
Nom Cross Section Area mm ²	Conductor		Inductance (mH/km)	Current - Carrying Capacity		Short Circuit Current at 1 second	
	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
50	0.641	0.822	0.421	159	140	4.91	2.85
70	0.443	0.568	0.395	196	171	6.87	2.85
95	0.320	0.411	0.377	238	204	9.32	2.85
120	0.253	0.325	0.360	274	232	11.77	2.85
150	0.206	0.265	0.350	309	259	14.72	2.85
185	0.164	0.212	0.339	354	293	18.15	4.45
240	0.125	0.162	0.327	415	338	23.55	4.45
300	0.100	0.130	0.312	472	380	29.44	4.45
400	0.0778	0.102	0.301	545	432	39.25	6.23

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

NA2XSEYFGbY 3 x (50 - 400) mm² 3.6/6 kV

AL / XLPE / CWS / PVC / GSFA / PVC

(Aluminium Conductor, XLPE Insulated, Copper Wire Screen, PVC Inner Sheathed / Galvanized Steel Flat Armor / PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 4 & IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape
50 - 400 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

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.
mm ²	mm	kg/km
50	53.0	4,120
70	57.5	4,725
95	61.5	5,360
120	65.0	5,960
150	68.0	6,830
185	72.0	7,565
240	77.0	8,630
300	84.5	10,210
400	92.5	12,350

Application:

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

Electrical Data

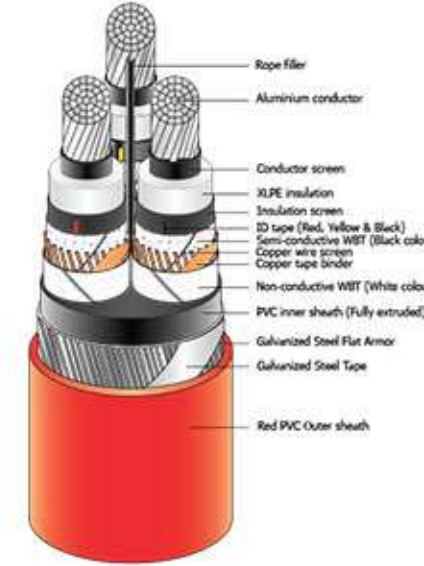
Nom Cross Section Area mm ²	Conductor		Inductance (mH/km)	Current - Carrying Capacity		Short Circuit Current at 1 second	
	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
50	0.641	0.822	0.364	159	140	4.91	2.85
70	0.443	0.568	0.343	196	171	6.87	2.85
95	0.320	0.411	0.328	238	204	9.32	2.85
120	0.253	0.325	0.314	274	232	11.77	2.85
150	0.206	0.265	0.306	309	259	14.72	2.85
185	0.164	0.212	0.297	354	293	18.15	4.45
240	0.125	0.162	0.289	415	338	23.55	4.45
300	0.100	0.130	0.282	472	380	29.44	4.45
400	0.0778	0.102	0.274	545	432	39.25	6.23

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

NA2XSEYFGbY 3 x (50 - 400) mm² 6/10 kV

AL / XLPE / CWS / PVC / GSFA / PVC

(Aluminium Conductor, XLPE Insulated, Copper Wire Screen, PVC Inner Sheathed / Galvanized Steel Flat Armor / PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 4 & IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape
50 - 400 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

50 - 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.
mm ²	mm	kg/km
50	58.0	4,680
70	62.5	5,345
95	66.0	5,990
120	69.5	6,620
150	73.0	7,520
185	76.5	8,285
240	81.5	9,325
300	88.0	10,800
400	94.5	12,730

Application:

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

Electrical Data

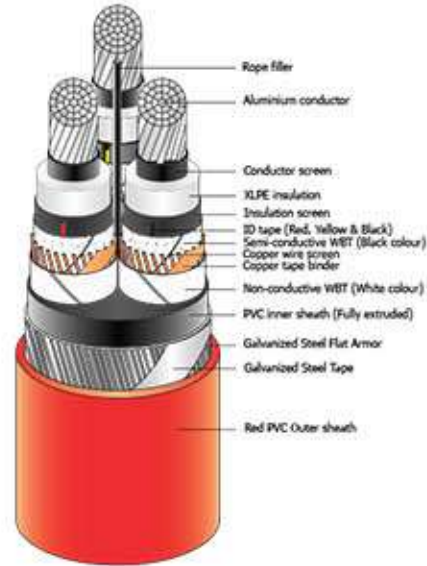
Nom Cross Section Area mm ²	Conductor		Inductance (mH/km)	Current - Carrying Capacity		Short Circuit Current at 1 second	
	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
50	0.641	0.822	0.383	159	140	4.91	2.85
70	0.443	0.568	0.360	196	171	6.87	2.85
95	0.320	0.411	0.344	238	204	9.32	2.85
120	0.253	0.325	0.329	274	232	11.77	2.85
150	0.206	0.265	0.320	309	259	14.72	2.85
185	0.164	0.212	0.310	354	293	18.15	4.45
240	0.125	0.162	0.300	415	338	23.55	4.45
300	0.100	0.130	0.287	472	380	29.44	4.45
400	0.0778	0.102	0.278	545	432	39.25	6.23

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

NA2XSEYFGbY 3 x (50 - 400) mm² 8.7/15 kV

AL / XLPE / CWS / PVC / GSFA / PVC

(Aluminium Conductor, XLPE Insulated, Copper Wire Screen, PVC Inner Sheathed / Galvanized Steel Flat Armor / PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 4 & IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape
50 - 400 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

50 - 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.
mm ²	mm	kg/km
50	63.5	5,390
70	67.5	6,075
95	71.5	6,755
120	75.0	7,454
150	78.5	8,390
185	82.0	9,190
240	87.0	10,280
300	93.5	11,825
400	100.0	13,820

Application:

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

Electrical Data

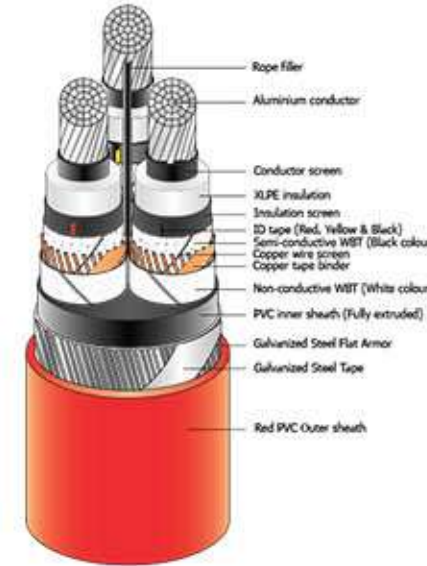
Nom Cross Section Area mm ²	Conductor		Inductance (mH/km)	Current - Carrying Capacity		Short Circuit Current at 1 second	
	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
50	0.641	0.822	0.404	159	140	4.91	2.85
70	0.443	0.568	0.379	196	171	6.87	2.85
95	0.320	0.411	0.362	238	204	9.32	2.85
120	0.253	0.325	0.346	274	232	11.77	2.85
150	0.206	0.265	0.336	309	259	14.72	2.85
185	0.164	0.212	0.326	354	293	18.15	4.45
240	0.125	0.162	0.315	415	338	23.55	4.45
300	0.100	0.130	0.301	472	380	29.44	4.45
400	0.0778	0.102	0.291	545	432	39.25	6.23

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

NA2XSEYFGbY 3 x (50 - 400) mm² 12/20 kV

AL / XLPE / CWS / PVC / GSFA / PVC

(Aluminium Conductor, XLPE Insulated, Copper Wire Screen, PVC Inner Sheathed / Galvanized Steel Flat Armor / PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 4 & IEC 60502 - 2



Special Features on Request:

- Oil Resistance
- UV Resistance
- Retardant Flame Cat. A, B, C
- Retardant Flame Non Category
- Heat Resistance
- Anti Termite

Note:

Conductor Shape
50 - 400 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

50 - 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.
mm ²	mm	kg/km
50	68.5	6,095
70	73.0	6,820
95	76.5	7,505
120	80.0	8,240
150	83.5	9,235
185	87.0	10,035
240	92.0	11,165
300	98.5	12,730
400	105.0	14,875

Application:

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

Electrical Data

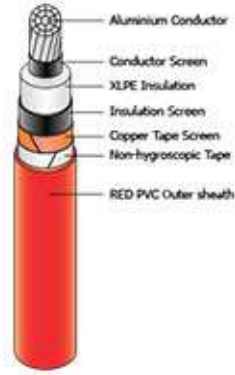
Nom Cross Section Area mm ²	Conductor		Inductance (mH/km)	Current - Carrying Capacity		Short Circuit Current at 1 second	
	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)		in air Max. (Amp) At 30 °C	in ground Max. (Amp) At 20 °C	Conductor Max. (kA)	Screen Max. (kA)
50	0.641	0.822	0.421	159	140	4.91	2.85
70	0.443	0.568	0.395	196	171	6.87	2.85
95	0.320	0.411	0.377	238	204	9.32	2.85
120	0.253	0.325	0.360	274	232	11.77	2.85
150	0.206	0.265	0.350	309	259	14.72	2.85
185	0.164	0.212	0.339	354	293	18.15	4.45
240	0.125	0.162	0.327	415	338	23.55	4.45
300	0.100	0.130	0.312	472	380	29.44	4.45
400	0.0778	0.102	0.301	545	432	39.25	6.23

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

NA2XSY 1 x (50 - 800) mm² 3.6/6 kV

AL / XLPE / CTS / PVC

(Aluminium Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed)
Standard Specification : IEC 60502 - 2



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

50 - 800 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

50 - 300 sqmm supplied in wooden drum @ 1000 meters

400 - 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.
mm ²	mm	kg/km
50	19.0	485
70	21.5	590
95	23.0	705
120	25.0	820
150	26.0	935
185	28.0	1,085
240	30.0	1,280
300	34.0	1,585
400	37.0	1,940
500	41.0	2,345
630	45.5	2,855
800	49.0	3,450

Application:

For power station and switchgear as well as station because of small bending radius in confined spaces indoors. As underground because of light weight where installation conditions are difficult.

Electrical Data

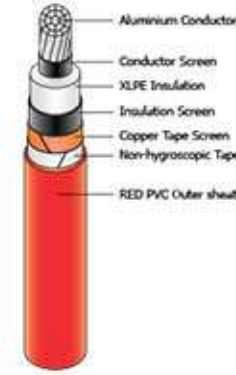
Conductor		Inductance		Current - Carrying Capacity				Short Circuit Current at 1 second		
Nom Cross Section Area mm ²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)	Trefoil formation	Flat formation	In air		In ground		Conductor Max. (kA)	Screen Max. (kA)
			(mH/km)	(mH/km)	Max. (Amp) at 30 °C	Max. (Amp) at 20 °C	Max. (Amp) at 30 °C	Max. (Amp) at 20 °C		
50	0.641	0.822	0.374	0.420	184	152	222	157	4.91	1.14
70	0.443	0.568	0.345	0.391	230	186	278	192	6.87	1.14
95	0.320	0.411	0.329	0.375	280	221	338	229	9.32	1.14
120	0.253	0.325	0.319	0.365	324	252	391	260	11.77	1.14
150	0.206	0.265	0.312	0.358	368	281	440	288	14.72	1.14
185	0.164	0.211	0.303	0.350	424	317	504	324	18.15	1.14
240	0.125	0.161	0.297	0.393	502	367	593	373	23.55	1.14
300	0.100	0.130	0.288	0.334	577	414	677	419	29.44	1.14
400	0.0778	0.102	0.281	0.327	673	470	769	466	39.25	1.14
500	0.0605	0.080	0.274	0.320	774	603	796	618	49.06	1.14
630	0.0469	0.080	0.267	0.314	914	690	939	706	61.82	1.14
800	0.0367	0.050	0.262	0.308	1019	795	994	764	78.50	1.14

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

NA2XSY 1 x (50 - 800) mm² 6/10 kV

AL / XLPE / CTS / PVC

(Aluminium Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed)
Standard Specification : IEC 60502 - 2



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

50 - 800 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

50 - 300 sqmm supplied in wooden drum @ 1000 meters

400 - 800 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Application:

For power station and switchgear as well as station because of small bending radius in confined spaces indoors. As underground because of light weight where installation conditions are difficult.

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm ²	mm	kg/km
50	22.0	565
70	23.5	675
95	25.5	790
120	27.0	915
150	28.5	1,035
185	30.0	1,185
240	32.0	1,380
300	35.0	1,665
400	38.0	1,995
500	41.5	2,375
630	46.0	2,890
800	49.5	3,485

Electrical Data

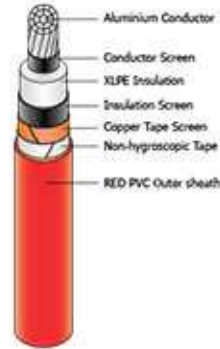
Conductor		Inductance		Current - Carrying Capacity				Short Circuit Current at 1 second		
Nom Cross Section Area mm ²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)	Trefoil formation	Flat formation	In air		In ground		Conductor Max. (kA)	Screen Max. (kA)
			(mH/km)	(mH/km)	Max. (Amp) at 30 °C	Max. (Amp) at 20 °C	Max. (Amp) at 30 °C	Max. (Amp) at 20 °C		
50	0.641	0.822	0.389	0.435	184	152	222	157	4.91	1.14
70	0.443	0.568	0.363	0.409	230	186	278	192	6.87	1.14
95	0.320	0.411	0.350	0.396	280	221	338	229	9.32	1.14
120	0.253	0.325	0.335	0.381	324	252	391	260	11.77	1.14
150	0.206	0.265	0.326	0.373	368	281	440	288	14.72	1.14
185	0.164	0.211	0.317	0.363	424	317	504	324	18.15	1.14
240	0.125	0.161	0.307	0.353	502	367	593	373	23.55	1.14
300	0.100	0.130	0.294	0.340	577	414	677	419	29.44	1.14
400	0.0778	0.102	0.286	0.332	673	470	769	466	39.25	1.14
500	0.0605	0.080	0.279	0.325	774	603	796	618	49.06	1.14
630	0.0469	0.080	0.269	0.316	914	690	939	706	61.82	1.14
800	0.0367	0.050	0.263	0.310	1019	795	994	764	78.50	1.14

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

NA2XSJ 1 x (50 - 800) mm² 8.7/15 kV

AL / XLPE / CTS / PVC

(Aluminium Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed)
Standard Specification : IEC 60502 - 2



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

50 - 800 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

50 - 300 sqmm supplied in wooden drum @ 1000 meters

400 - 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.
mm ²	mm	kg/km
50	24.0	665
70	26.0	785
95	28.0	905
120	29.5	1,035
150	31.0	1,165
185	32.5	1,320
240	35.0	1,520
300	37.5	1,820
400	40.5	2,165
500	44.0	2,555
630	48.5	3,085
800	52.0	3,695

Application:

For power station and switchgear as well as station because of small bending radius in confined spaces indoors. As underground because of light weight where installation conditions are difficult.

Electrical Data

Conductor		Inductance		Current - Carrying Capacity				Short Circuit Current at 1 second		
Nom Cross Section Area mm ²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)	Trefoil formation	Flat formation	In air		In ground		Conductor Max. (kA)	Screen Max. (kA)
			(mH/km)	(mH/km)	Max. (Amp) at 30 °C	Max. (Amp) at 20 °C	Max. (Amp) at 30 °C	Max. (Amp) at 20 °C		
50	0.641	0.822	0.407	0.453	184	152	222	157	4.91	1.14
70	0.443	0.568	0.383	0.429	230	186	278	192	6.87	1.14
95	0.320	0.411	0.366	0.412	280	221	338	229	9.32	1.14
120	0.253	0.325	0.351	0.397	324	252	391	260	11.77	1.14
150	0.206	0.265	0.341	0.388	368	281	440	288	14.72	1.14
185	0.164	0.211	0.332	0.378	424	317	504	324	18.15	1.14
240	0.125	0.161	0.321	0.367	502	367	593	373	23.55	1.14
300	0.100	0.130	0.308	0.354	577	414	677	419	29.44	1.14
400	0.0778	0.102	0.298	0.344	673	470	769	466	39.25	1.14
500	0.0605	0.080	0.288	0.335	774	603	796	618	49.06	1.14
630	0.0469	0.080	0.279	0.325	914	690	939	706	61.82	1.14
800	0.0367	0.050	0.273	0.320	1019	795	994	764	78.50	1.14

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

NA2XSJ 1 x (50 - 800) mm² 12/20 kV

AL / XLPE / CTS / PVC

(Aluminium Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed)
Standard Specification : IEC 60502 - 2



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

50 - 800 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

50 - 300 sqmm supplied in wooden drum @ 1000 meters

400 - 800 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Application:

For power station and switchgear as well as station because of small bending radius in confined spaces indoors. As underground because of light weight where installation conditions are difficult.

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm ²	mm	kg/km
50	26.5	765
70	28.5	890
95	30.0	1,020
120	32.0	1,155
150	33.0	1,285
185	34.5	1,445
240	37.0	1,655
300	40.0	1,965
400	43.0	2,320
500	46.5	2,725
630	50.5	3,270
800	54.0	3,895

Electrical Data

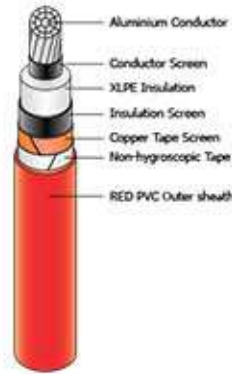
Conductor		Inductance		Current - Carrying Capacity				Short Circuit Current at 1 second		
Nom Cross Section Area mm ²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)	Trefoil formation	Flat formation	In air		In ground		Conductor Max. (kA)	Screen Max. (kA)
			(mH/km)	(mH/km)	Max. (Amp) at 30 °C	Max. (Amp) at 20 °C	Max. (Amp) at 30 °C	Max. (Amp) at 20 °C		
50	0.641	0.822	0.425	0.371	184	152	222	157	4.91	1.14
70	0.443	0.568	0.399	0.456	230	186	278	192	6.87	1.14
95	0.320	0.411	0.382	0.428	280	221	338	229	9.32	1.14
120	0.253	0.325	0.366	0.412	324	252	391	260	11.77	1.14
150	0.206	0.265	0.355	0.402	368	281	440	288	14.72	1.14
185	0.164	0.211	0.345	0.392	424	317	504	324	18.15	1.14
240	0.125	0.161	0.334	0.380	502	367	593	373	23.55	1.14
300	0.100	0.130	0.319	0.365	577	414	677	419	29.44	1.14
400	0.0778	0.102	0.309	0.355	673	470	769	466	39.25	1.14
500	0.0605	0.080	0.298	0.344	774	603	796	618	49.06	1.14
630	0.0469	0.080	0.288	0.334	914	690	939	706	61.82	1.14
800	0.0367	0.050	0.282	0.328	1019	795	994	764	78.50	1.14

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

NA2XSY 1 x (50 - 800) mm² 18/30 kV

AL / XLPE / CTS / PVC

(Aluminium Conductor, XLPE Insulated, Copper Tape Screen, PVC Sheathed)
Standard Specification : IEC 60502 - 2



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

50 - 800 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

50 - 300 sqmm supplied in wooden drum @ 1000 meters

400 - 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.
mm ²	mm	kg/km
50	32.0	1,050
70	34.0	1,195
95	36.0	1,335
120	37.5	1,485
150	39.0	1,630
185	40.5	1,805
240	42.5	2,035
300	45.5	2,370
400	48.5	2,750
500	52.0	3,185
630	56.5	3,775
800	59.5	4,420

Application:

For power station and switchgear as well as station because of small bending radius in confined spaces indoors. As underground because of light weight where installation conditions are difficult.

Electrical Data

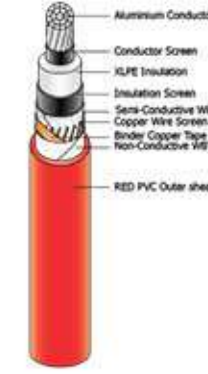
Conductor		Inductance		Current - Carrying Capacity				Short Circuit Current at 1 second		
Nom Cross Section Area mm ²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)	Trefoil formation	Flat formation	In air		In ground		Conductor Max. (kA)	Screen Max. (kA)
			(mH/km)	(mH/km)	Max. (Amp) at 30 °C	Max. (Amp) at 20 °C	Max. (Amp) at 30 °C	Max. (Amp) at 20 °C		
50	0.641	0.822	0.463	0.510	184	152	222	157	4.91	1.14
70	0.443	0.568	0.435	0.482	230	186	278	192	6.87	1.14
95	0.320	0.411	0.416	0.462	280	221	338	229	9.32	1.14
120	0.253	0.325	0.398	0.445	324	252	391	260	11.77	1.14
150	0.206	0.265	0.387	0.433	368	281	440	288	14.72	1.14
185	0.164	0.211	0.375	0.422	424	317	504	324	18.15	1.14
240	0.125	0.161	0.362	0.408	502	367	593	373	23.55	1.14
300	0.100	0.130	0.346	0.392	577	414	677	419	29.44	1.14
400	0.0778	0.102	0.334	0.380	673	470	769	466	39.25	1.14
500	0.0605	0.080	0.321	0.367	774	603	796	618	49.06	1.14
630	0.0469	0.080	0.309	0.356	914	690	939	706	61.82	1.14
800	0.0367	0.050	0.302	0.348	1019	795	994	764	78.50	1.14

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

NA2XSY 1 x (50 - 800) mm² 3.6/6 kV

AL / XLPE / CWS / PVC

(Aluminium Conductor, XLPE Insulated, Copper Wire Screen, PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 3 & IEC 60502 - 2



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

50 - 800 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

50 - 300 sqmm supplied in wooden drum @ 1000 meters

400 - 800 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Application:

For power station and switchgear as well as station because of small bending radius in confined spaces indoors. As underground because of light weight where installation conditions are difficult.

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm ²	mm	kg/km
50	25.5	775
70	27.5	885
95	29.0	995
120	30.5	1,115
150	32.0	1,315
185	33.5	1,455
240	35.5	1,650
300	39.0	1,945
400	42.0	2,385
500	46.0	2,765
630	50.0	3,275
800	53.0	3,875

Electrical Data

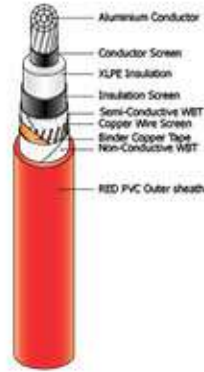
Conductor		Inductance		Current - Carrying Capacity				Short Circuit Current at 1 second		
Nom Cross Section Area mm ²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)	Trefoil formation	Flat formation	In air		In ground		Conductor Max. (kA)	Screen Max. (kA)
			(mH/km)	(mH/km)	Max. (Amp) at 30 °C	Max. (Amp) at 20 °C	Max. (Amp) at 30 °C	Max. (Amp) at 20 °C		
50	0.641	0.822	0.418	0.464	184	152	222	157	4.91	2.85
70	0.443	0.568	0.392	0.438	230	186	278	192	6.87	2.85
95	0.320	0.411	0.374	0.420	280	221	338	229	9.32	2.85
120	0.253	0.325	0.357	0.404	324	252	391	260	11.77	2.85
150	0.206	0.265	0.348	0.394	368	281	440	288	14.72	4.45
185	0.164	0.211	0.337	0.383	424	317	504	324	18.15	4.45
240	0.125	0.161	0.326	0.373	502	367	593	373	23.55	4.45
300	0.100	0.130	0.314	0.360	577	414	677	419	29.44	4.45
400	0.0778	0.102	0.305	0.351	673	470	769	466	39.25	6.23
500	0.0605	0.080	0.295	0.342	774	603	796	618	49.06	6.23
630	0.0469	0.080	0.285	0.331	914	690	939	706	61.82	6.23
800	0.0367	0.050	0.278	0.325	1019	795	994	764	78.50	6.23

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

NA2XSY 1 x (50 - 800) mm² 6/10 kV

AL / XLPE / CWS / PVC

(Aluminium Conductor, XLPE Insulated, Copper Wire Screen, PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 3 & IEC 60502 - 2



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

50 - 800 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

50 - 300 sqmm supplied in wooden drum @ 1000 meters

400 - 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.
mm ²	mm	kg/km
50	27.5	855
70	29.5	965
95	31.0	1,080
120	32.5	1,205
150	34.0	1,405
185	35.0	1,555
240	37.0	1,745
300	40.0	2,020
400	43.0	2,435
500	46.0	2,795
630	50.0	3,305
800	54.0	3,905

Application:

For power station and switchgear as well as station because of small bending radius in confined spaces indoors. As underground because of light weight where installation conditions are difficult.

Electrical Data

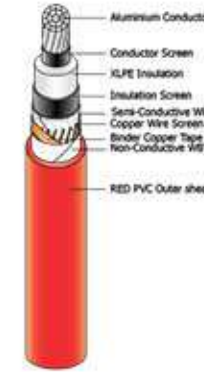
Conductor		Inductance		Current - Carrying Capacity				Short Circuit Current at 1 second		
Nom Cross Section Area mm ²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)	Trefoil formation	Flat formation	In air		In ground		Conductor Max. (kA)	Screen Max. (kA)
			(mH/km)	(mH/km)	Max. (Amp) at 30 °C	Max. (Amp) at 20 °C	Max. (Amp) at 30 °C	Max. (Amp) at 20 °C		
50	0.641	0.822	0.432	0.478	184	152	222	157	4.91	2.85
70	0.443	0.568	0.406	0.452	230	186	278	192	6.87	2.85
95	0.320	0.411	0.387	0.433	280	221	338	229	9.32	2.85
120	0.253	0.325	0.370	0.416	324	252	391	260	11.77	2.85
150	0.206	0.265	0.359	0.405	368	281	440	288	14.72	4.45
185	0.164	0.211	0.348	0.394	424	317	504	324	18.15	4.45
240	0.125	0.161	0.336	0.382	502	367	593	373	23.55	4.45
300	0.100	0.130	0.320	0.366	577	414	677	419	29.44	4.45
400	0.0778	0.102	0.308	0.355	673	470	769	466	39.25	6.23
500	0.0605	0.080	0.297	0.343	774	603	796	618	49.06	6.23
630	0.0469	0.080	0.286	0.333	914	690	939	706	61.82	6.23
800	0.0367	0.050	0.280	0.327	1019	795	994	764	78.50	6.23

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

NA2XSY 1 x (50 - 800) mm² 8.7/15 kV

AL / XLPE / CWS / PVC

(Aluminium Conductor, XLPE Insulated, Copper Wire Screen, PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 3 & IEC 60502 - 2



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

50 - 800 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

50 - 300 sqmm supplied in wooden drum @ 1000 meters

400 - 800 sqmm supplied in wooden drum on available length

Length Tolerance per drum ± 2%

Application:

For power station and switchgear as well as station because of small bending radius in confined spaces indoors. As underground because of light weight where installation conditions are difficult.

Construction Data

Nom Cross Section	Overall Diameter	Cable Weight
Area	approx.	approx.
mm ²	mm	kg/km
50	30.0	955
70	31.5	1,075
95	33.0	1,195
120	35.0	1,320
150	36.0	1,530
185	37.5	1,685
240	39.5	1,875
300	42.5	2,165
400	45.0	2,590
500	48.5	2,960
630	52.5	3,485
800	56.0	4,095

Electrical Data

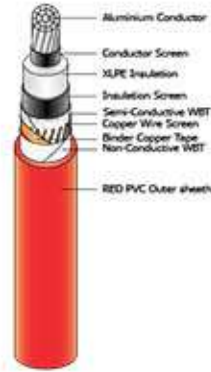
Conductor		Inductance		Current - Carrying Capacity				Short Circuit Current at 1 second		
Nom Cross Section Area mm ²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)	Trefoil formation	Flat formation	In air		In ground		Conductor Max. (kA)	Screen Max. (kA)
			(mH/km)	(mH/km)	Max. (Amp) at 30 °C	Max. (Amp) at 20 °C	Max. (Amp) at 30 °C	Max. (Amp) at 20 °C		
50	0.641	0.822	0.448	0.495	184	152	222	157	4.91	2.85
70	0.443	0.568	0.421	0.468	230	186	278	192	6.87	2.85
95	0.320	0.411	0.402	0.448	280	221	338	229	9.32	2.85
120	0.253	0.325	0.384	0.430	324	252	391	260	11.77	2.85
150	0.206	0.265	0.372	0.418	368	281	440	288	14.72	4.45
185	0.164	0.211	0.361	0.407	424	317	504	324	18.15	4.45
240	0.125	0.161	0.348	0.394	502	367	593	373	23.55	4.45
300	0.100	0.130	0.331	0.378	577	414	677	419	29.44	4.45
400	0.0778	0.102	0.319	0.366	673	470	769	466	39.25	6.23
500	0.0605	0.080	0.307	0.353	774	603	796	618	49.06	6.23
630	0.0469	0.080	0.297	0.343	914	690	939	706	61.82	6.23
800	0.0367	0.050	0.288	0.335	1019	795	994	764	78.50	6.23

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

NA2XS1Y 1 x (50 - 800) mm² 12/20 kV

AL / XLPE / CWS / PVC

(Aluminium Conductor, XLPE Insulated, Copper Wire Screen, PVC Sheathed)
Standard Specification : SPLN 43 - 5 - 3 & IEC 60502 - 2



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 Halogen

Note:

Conductor Shape

50 - 800 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

50 - 300 sqmm supplied in wooden drum @ 1000 meters

400 - 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.
mm ²	mm	kg/km
50	32.0	1,055
70	34.0	1,175
95	35.5	1,305
120	37.0	1,435
150	38.0	1,645
185	40.0	1,805
240	41.5	2,010
300	44.5	2,305
400	47.0	2,735
500	50.5	3,115
630	55.0	3,685
800	58.0	4,305

Application:

For power station and switchgear as well as station because of small bending radius in confined spaces indoors. As underground because of light weight where installation conditions are difficult.

Electrical Data

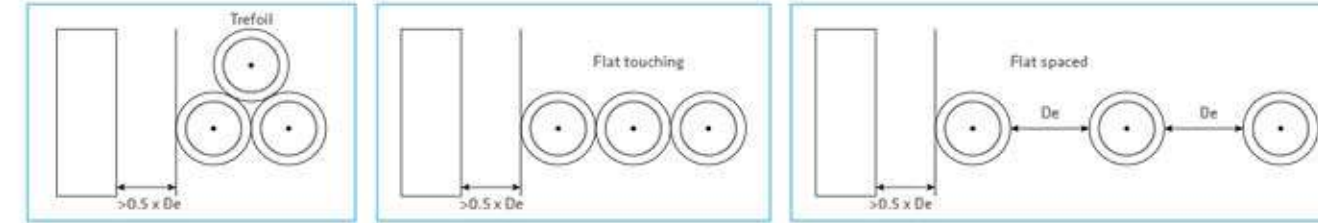
Conductor			Inductance		Current - Carrying Capacity				Short Circuit Current at 1 second	
Nom Cross Section Area mm ²	DC Resistance at 20 °C Max. (Ω/km)	AC Resistance at 90 °C Max. (Ω/km)	Trefoil formation	Flat formation	In air		In ground		Conductor Max. (kA)	Screen Max. (kA)
			(mH/km)	(mH/km)	Max. (Amp) at 30 °C	Max. (Amp) at 20 °C	Max. (Amp) at 30 °C	Max. (Amp) at 20 °C		
50	0.641	0.822	0.462	0.509	184	152	222	157	4.91	2.85
70	0.443	0.568	0.434	0.480	230	186	278	192	6.87	2.85
95	0.320	0.411	0.414	0.460	280	221	338	229	9.32	2.85
120	0.253	0.325	0.396	0.442	324	252	391	260	11.77	2.85
150	0.206	0.265	0.384	0.430	368	281	440	288	14.72	4.45
185	0.164	0.211	0.372	0.418	424	317	504	324	18.15	4.45
240	0.125	0.161	0.358	0.404	502	367	593	373	23.55	4.45
300	0.100	0.130	0.341	0.387	577	414	677	419	29.44	4.45
400	0.0778	0.102	0.328	0.375	673	470	769	466	39.25	6.23
500	0.0605	0.080	0.315	0.362	774	603	796	618	49.06	6.23
630	0.0469	0.080	0.304	0.351	914	690	939	706	61.82	6.23
800	0.0367	0.050	0.297	0.343	1019	795	994	764	78.50	6.23

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

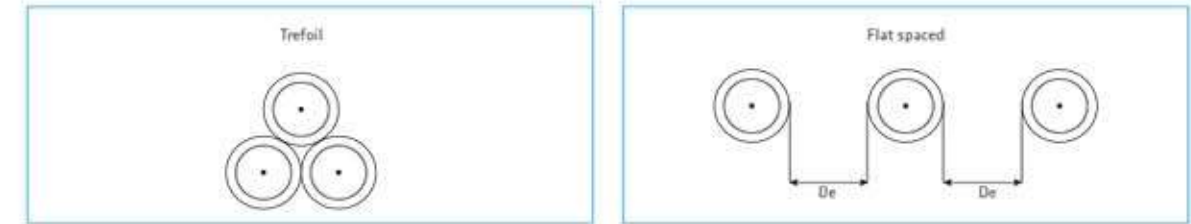
CONDITIONS FOR CURRENT CARRYING CAPACITY

The tabulated current rating are designed by the conditions as below :

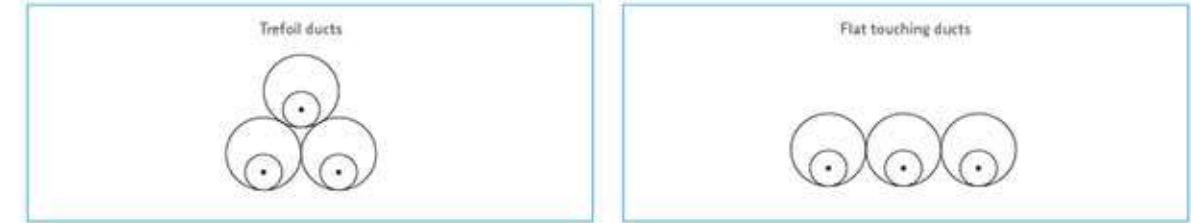
• Single-core cables in air



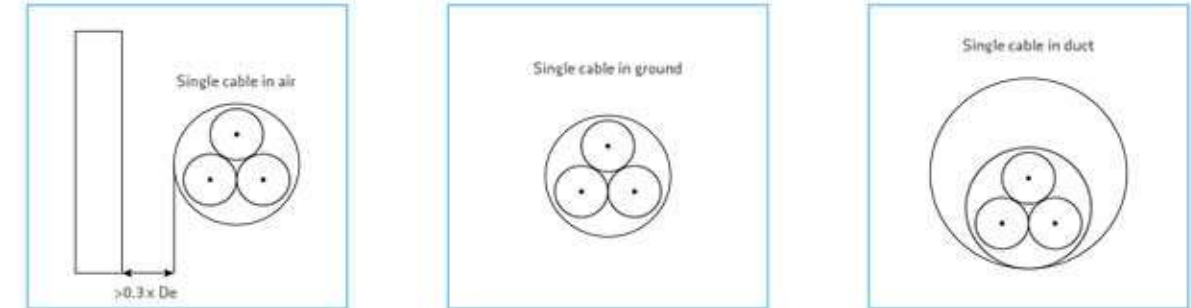
• Single-core cables buried direct in ground



• Single-core cables in earthenware ducts in ground



• Three-core cables



• Conductor temperature : 90 °C (XLPE Insulation)

• Cable laying:

In air	Ambient temperature	: 30 °C
In Ground	Ground temperature	: 20 °C
	Depth of laying	: 0.8 m
	Thermal resistivity of soil	: 1.5 K.m/W
	Thermal resistivity of earthenware ducts	: 1.2 K.m/W

• Screen bonded at both ends

Table 1:

Current ratings for single-core cable with XLPE Insulation rated voltage 3.6/6 kV to 18/30 kV copper conductor

Nominal area of conductor	Buried direct in the ground		In single-way ducts		In air		
	Trefoil	Flat spaced	Trefoil ducts	Flat touching ducts	Trefoil	Flat touching	Flat spaced
mm ²	A	A	A	A	A	A	A
35	166	172	157	159	198	203	238
50	196	203	186	188	238	243	286
70	239	246	227	229	296	303	356
95	285	293	271	274	361	369	434
120	323	332	308	311	417	426	500
150	361	366	343	347	473	481	559
185	406	410	387	391	543	550	637
240	469	470	447	453	641	647	745
300	526	524	504	510	735	739	846
400	590	572	564	571	845	837	938

Table 2:

Current ratings for single-core cable with XLPE Insulation rated voltage 3.6/6 kV to 18/30 kV aluminium conductor

Nominal area of conductor	Buried direct in the ground		In single-way ducts		In air		
	Trefoil	Flat spaced	Trefoil ducts	Flat touching ducts	Trefoil	Flat touching	Flat spaced
mm ²	A	A	A	A	A	A	A
50	152	157	144	146	184	189	222
70	186	192	176	178	230	236	278
95	221	229	210	213	280	287	338
120	252	260	240	242	324	332	391
150	281	288	267	271	368	376	440
185	317	324	303	307	424	432	504
240	367	373	351	356	502	511	593
300	414	419	397	402	577	586	677
400	470	466	451	457	673	676	769

Table 3:

Current ratings for three-cores cable with XLPE Insulation rated voltage 3.6/6 kV to 18/30 kV copper conductor, armoured and unarmoured

Nominal area of conductor	Unarmoured			Armoured		
	Buried direct in ground	In a buried duct	In air	Buried direct in ground	In a buried duct	In air
mm ²	A	A	A	A	A	A
35	153	133	170	154	134	172
50	181	158	204	181	158	205
70	221	193	253	220	194	253
95	262	231	304	263	232	307
120	298	264	351	298	264	352
150	334	297	398	332	296	397
185	377	336	455	374	335	453
240	434	390	531	431	387	529
300	489	441	606	482	435	598

Table 4:

Current ratings for three-cores cable with XLPE Insulation rated voltage 3.6/6 kV to 18/30 kV aluminium conductor, armoured and unarmoured

Nominal area of conductor	Unarmoured			Armoured		
	Buried direct in ground	In a buried duct	In air	Buried direct in ground	In a buried duct	In air
mm ²	A	A	A	A	A	A
50	140	122	158	140	123	159
70	171	150	196	171	150	196
95	203	179	236	204	180	238
120	232	205	273	232	206	274
150	260	231	309	259	231	309
185	294	262	355	293	262	354
240	340	305	415	338	304	415
300	384	346	475	380	343	472

A. Grouping in the ground

1. Correction factors for ambient ground temperatures other than 20 °C

Maximum conductor temperature	Ambient ground temperature (°C)							
	10	15	25	30	35	40	45	50
90	1.07	1.04	0.96	0.93	0.89	0.85	0.80	0.76

2. Correction factors for depths of laying other than 0.8 m for direct buried cables

Depth of Laying (Mtrs)	Single-core Cables Nominal conductor size (mm ²)		Three-core cables
	≤ 185 mm ²	> 185 mm ²	
0.5	1.04	1.06	1.04
0.6	1.02	1.04	1.03
1	0.98	0.97	0.98
1.25	0.96	0.95	0.96
1.5	0.95	0.93	0.95
1.75	0.94	0.91	0.94
2	0.93	0.90	0.93
2.5	0.91	0.88	0.91
3	0.90	0.86	0.90

3. Correction factors for depths of laying other than 0.8 m for cables in ducts

Depth of Laying (Mtrs)	Single-core Cables Nominal conductor size (mm ²)		Three-core cables
	≤ 185 mm ²	> 185 mm ²	
0.5	1.04	1.05	1.03
0.6	1.02	1.03	1.02
1	0.98	0.97	0.99
1.25	0.96	0.95	0.97
1.5	0.95	0.93	0.96
1.75	0.94	0.92	0.95
2	0.93	0.91	0.94
2.5	0.91	0.89	0.93
3	0.90	0.88	0.92

4. Correction factors for soil thermal resistivities other than 1.5 K•m/W for direct buried single-core cables

Nominal area of conductor mm ²	Values of soil thermal resistivity (K•m/W)						
	0.7	0.8	0.9	1	2	2.5	3
35	1.30	1.25	1.21	1.16	0.89	0.81	0.75
50	1.32	1.26	1.21	1.16	0.89	0.81	0.74
70	1.33	1.27	1.22	1.17	0.89	0.81	0.74
95	1.34	1.28	1.22	1.18	0.89	0.80	0.74
120	1.34	1.28	1.22	1.18	0.88	0.80	0.74
150	1.35	1.28	1.23	1.18	0.88	0.80	0.74
185	1.35	1.29	1.23	1.18	0.88	0.80	0.74
240	1.36	1.29	1.23	1.18	0.88	0.80	0.73
300	1.36	1.30	1.24	1.19	0.88	0.80	0.73
400	1.37	1.30	1.24	1.19	0.88	0.79	0.73

5. Correction factors for soil thermal resistivities other than 1.5 K•m/W single-core cables in buried ducts

Nominal area of conductor mm ²	Values of soil thermal resistivity (K•m/W)						
	0.7	0.8	0.9	1	2	2.5	3
35	1.21	1.18	1.15	1.12	0.91	0.84	0.79
50	1.21	1.18	1.15	1.12	0.91	0.84	0.78
70	1.22	1.19	1.15	1.12	0.91	0.84	0.78
95	1.23	1.19	1.16	1.13	0.91	0.84	0.78
120	1.23	1.20	1.16	1.13	0.91	0.84	0.78
150	1.24	1.20	1.16	1.13	0.91	0.83	0.78
185	1.24	1.20	1.17	1.13	0.91	0.83	0.78
240	1.25	1.21	1.17	1.14	0.90	0.83	0.77
300	1.25	1.21	1.17	1.14	0.90	0.83	0.77
400	1.25	1.21	1.17	1.14	0.90	0.83	0.77

6. Correction factors for soil thermal resistivities other than 1.5 K•m/W for direct buried three-core cables

Nominal area of conductor mm ²	Values of soil thermal resistivity (K•m/W)						
	0.7	0.8	0.9	1	2	2.5	3
35	1.25	1.21	1.17	1.13	0.91	0.83	0.78
50	1.25	1.21	1.17	1.14	0.91	0.83	0.77
70	1.26	1.21	1.18	1.14	0.90	0.83	0.77
95	1.26	1.22	1.18	1.14	0.90	0.83	0.77
120	1.26	1.22	1.18	1.14	0.90	0.83	0.77
150	1.27	1.22	1.18	1.15	0.90	0.83	0.77
185	1.27	1.23	1.18	1.15	0.90	0.83	0.77
240	1.28	1.23	1.19	1.15	0.90	0.83	0.77
300	1.28	1.23	1.19	1.15	0.90	0.82	0.77
400	1.28	1.23	1.19	1.15	0.90	0.82	0.76

Correction factors for soil thermal resistivities other than 1.5 K·m/W three-core cables in buried ducts

Nominal area of conductor mm ²	Values of soil thermal resistivity (K·m/W)						
	0.7	0.8	0.9	1	2	2.5	3
35	1.14	1.12	1.10	1.08	0.94	0.88	0.84
50	1.14	1.12	1.10	1.08	0.94	0.88	0.84
70	1.15	1.13	1.11	1.09	0.94	0.88	0.83
95	1.15	1.13	1.11	1.09	0.94	0.88	0.83
120	1.15	1.13	1.11	1.09	0.93	0.88	0.83
150	1.16	1.13	1.11	1.09	0.93	0.88	0.83
185	1.16	1.14	1.11	1.09	0.93	0.87	0.83
240	1.16	1.14	1.12	1.10	0.93	0.87	0.82
300	1.17	1.14	1.12	1.10	0.93	0.87	0.82
400	1.17	1.14	1.12	1.10	0.92	0.86	0.81

8. Correction factors for groups of three-core cables in horizontal formation laid direct in the ground

Number of cables in group	Spacing between cable centres mm				
	Touching	200	400	600	800
2	0.80	0.86	0.90	0.92	0.94
3	0.69	0.77	0.82	0.86	0.89
4	0.62	0.72	0.79	0.83	0.87
5	0.57	0.68	0.75	0.81	0.85
6	0.54	0.65	0.74	0.80	0.84
7	0.51	0.63	0.72	0.78	0.83
8	0.49	0.61	0.71	0.78	-
9	0.47	0.60	0.70	0.77	-
10	0.46	0.59	0.69	-	-
11	0.45	0.57	0.69	-	-
12	0.43	0.56	0.68	-	-

9. Correction factors for groups of three-phase circuits of single-core cables laid direct in the ground

Number of cables in group	Spacing between cable centres mm				
	Touching	200	400	600	800
2	0.73	0.83	0.88	0.90	0.92
3	0.60	0.73	0.79	0.83	0.86
4	0.54	0.68	0.75	0.80	0.84
5	0.49	0.63	0.72	0.78	0.82
6	0.46	0.61	0.70	0.76	0.81
7	0.43	0.58	0.68	0.75	0.80
8	0.41	0.57	0.67	0.74	-
9	0.39	0.55	0.66	0.73	-
10	0.37	0.54	0.65	-	-
11	0.36	0.53	0.64	-	-
12	0.35	0.52	0.64	-	-

10. Correction factors for groups of three-core cables in single way ducts in horizontal formation

Number of cables in group	Spacing between cable centres mm				
	Touching	200	400	600	800
2	0.85	0.88	0.92	0.94	0.95
3	0.75	0.80	0.85	0.88	0.91
4	0.69	0.75	0.82	0.86	0.89
5	0.65	0.72	0.79	0.84	0.87
6	0.62	0.69	0.77	0.83	0.87
7	0.59	0.67	0.76	0.82	0.86
8	0.57	0.65	0.75	0.81	-
9	0.55	0.64	0.74	0.80	-
10	0.54	0.63	0.73	-	-
11	0.52	0.62	0.73	-	-
12	0.51	0.61	0.72	-	-

11. Correction factors for groups of three-phase circuits of single-core cables in single-way ducts

Number of cables in group	Spacing between cable centres mm				
	Touching	200	400	600	800
2	0.78	0.85	0.89	0.91	0.93
3	0.66	0.75	0.81	0.85	0.88
4	0.59	0.70	0.77	0.82	0.86
5	0.55	0.66	0.74	0.80	0.84
6	0.51	0.64	0.72	0.78	0.83
7	0.48	0.61	0.71	0.77	0.82
8	0.46	0.60	0.70	0.76	-
9	0.44	0.58	0.69	0.76	-
10	0.43	0.57	0.68	-	-
11	0.42	0.56	0.67	-	-
12	0.40	0.55	0.67	-	-

B. Grouping in air

1. Correction factors for ambient air temperatures other than 30 °C

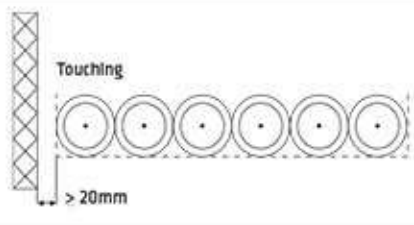
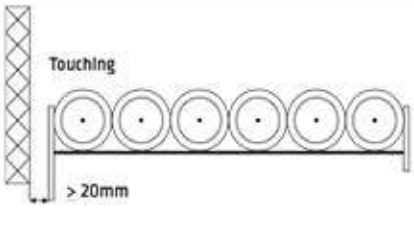
Maximum conductor temperature	Ambient air temperature (°C)							
	20	25	35	40	45	50	55	60
90	1.08	1.04	0.96	0.91	0.87	0.82	0.76	0.71

2. Single core cables in three phase system

2.1. Flat Formation

Minimum distance from the wall is 20 mm

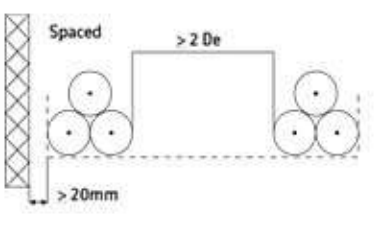
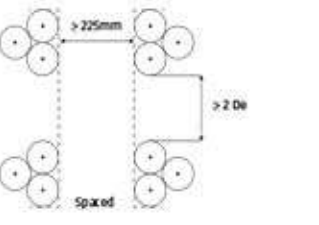
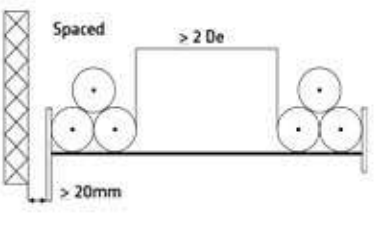
Clearance between systems = external diameter of cable (D_c)

Method of installation	Number of trays	Number of three - phase circuits		
		1	2	3
	1	0.98	0.91	0.87
	2	0.96	0.87	0.81
	3	0.95	0.85	0.78
	1	1.00	0.97	0.96
	2	0.98	0.93	0.89
	3	0.97	0.90	0.86

2.2. Trefoil Formation

Minimum distance from the wall is 20 mm

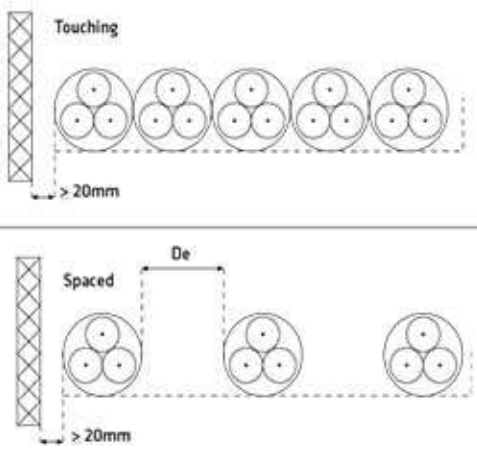
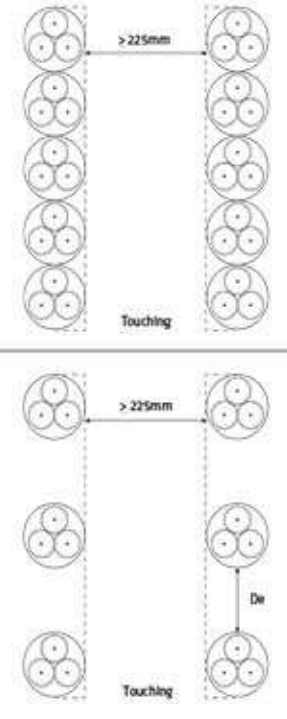
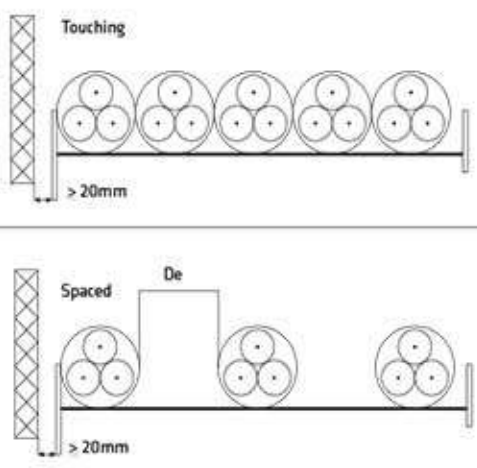
Clearance between systems = 2 x external diameter of cable ($2D_c$)

Method of installation	Number of trays	Number of three - phase circuits		
		1	2	3
	1	1.00	0.98	0.96
	2	0.97	0.93	0.89
	3	0.97	0.93	0.89
	1	1.00	0.91	0.89
	2	1.00	0.90	0.86
	1	1.00	1.00	1.00
	2	0.97	0.95	0.93
	3	0.96	0.94	0.90

3. Multi core cables in three phase system

Minimum distance from the wall is 20 mm

Clearance between systems = external diameter of cable (D_c)

Method of installation	Number of trays	Number of three - phase circuits					
		1	2	3	4	6	9
	1	1.00	0.88	0.82	0.79	0.76	0.73
	2	1.00	0.87	0.80	0.77	0.73	0.68
	3	1.00	0.86	0.79	0.76	0.71	0.66
	1	1.00	1.00	0.98	0.95	0.91	-
	2	1.00	0.99	0.96	0.92	0.97	-
	3	1.00	0.98	0.95	0.91	0.85	-
	1	1.00	0.88	0.82	0.78	0.73	0.72
	2	1.00	0.88	0.81	0.76	0.71	0.7
	1	1.00	0.91	0.89	0.88	0.87	-
	2	1.00	0.91	0.88	0.87	0.85	-
	1	1.00	0.87	0.82	0.80	0.79	0.78
	2	1.00	0.86	0.8	0.78	0.76	0.73
	3	1.00	0.85	0.79	0.76	0.73	0.70
	1	1.00	1.00	1.00	1.00	1.00	-
	2	1.00	0.99	0.98	0.97	0.96	-
	3	1.00	0.98	0.97	0.96	0.93	-



PT VOKSEL ELECTRIC Tbk.

MEDIUM VOLTAGE
EXPORT CABLE

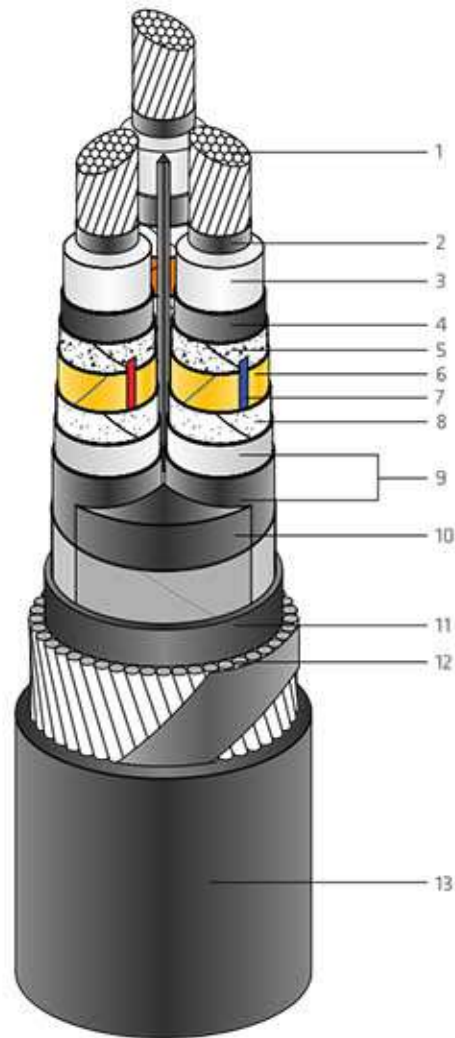
3 x 240 mm² 11 kV

CU / XLPE / CTS / AL-Laminated / PVC / SWA / PE

(Copper Conductor, XLPE Insulated, Copper Tape Screen, Al-Laminated / PVC Inner sheath, Steel Wire Armor, PE Sheathed)
Standard Specification : IEC 60502 - 2 & Customer specification



Customer DEWA
Country Dubai - U.E.A



1. **Conductor**
Compacted Aluminium conductor
2. **Conductor screen**
Extruded semi-conductive conductor shield
3. **Insulation**
XLPE insulation
4. **Insulation screen**
Extruded semi-conductive insulation shield
5. **Swelling tape**
Semi-conductive water blocking
6. **Metallic screen**
Un-coated copper tape
7. **Identification tape**
Red, Yellow & Blue
8. **Water sealing tape**
Non-conductive water blocking
9. **Radial water sealing**
Extruded Polyethylene (PE) applied over metallic aluminium laminated
10. **Filler**
PVC Shape filler
11. **Inner sheath/armor bedding**
Extruded Black PVC
12. **Armoring**
Single layer of Galvanized Steel Wire
13. **Jacketing**
Extruded of Black PE + Graphite polish

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

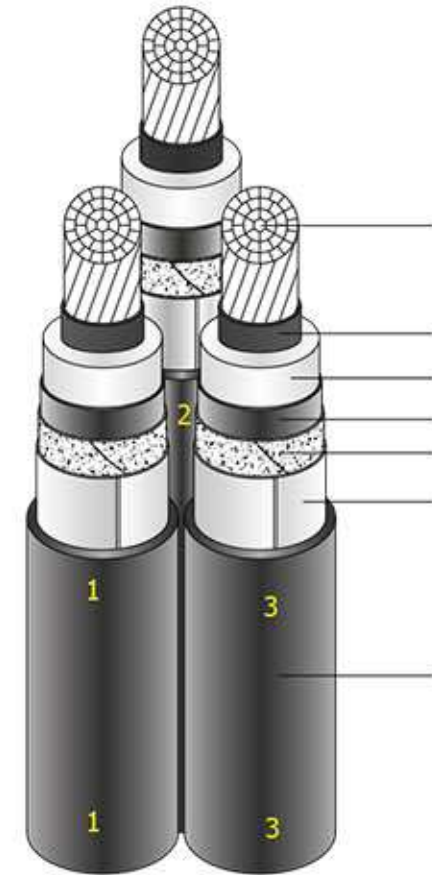
3 x 1 x 240 mm² 12/20 (24) kV

Triplex Cable - AL / XLPE / Al-Laminated / PVC

(Copper Conductor, XLPE Insulated, Al-Laminated, PVC Sheathed)
Standard Specification : IEC 60502 - 2 & Customer specification



Customer ETDE
Country Ethiopia



1. **Conductor**
Compacted Aluminium conductor
2. **Conductor screen**
Extruded semi-conductive conductor shield
3. **Insulation**
XLPE insulation
4. **Insulation screen**
Extruded semi-conductive insulation shield
5. **Swelling tape**
Semi-conductive water blocking
6. **Al Tape**
Aluminium Laminated
7. **Jacketing**
Black PVC Jacket

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

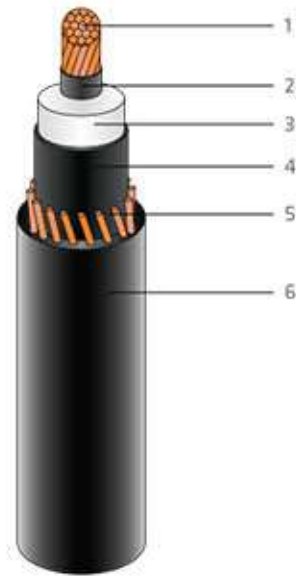
1 x 3/0 AWG 35 kV

CU / XLPE / CWS / PE

(Copper Conductor, XLPE Insulated, Copper Wire Screen, PE Sheathed)
Standard Specification : ANSI/ICEA S-94-649, T-27-581, NEMA WC 53 & Cust spec



Customer MERALCO
Country Phillipines



- 1. Conductor**
Soft or annealed uncoated compressed Class B.
- 2. Conductor screen/shield**
Super smooth extra clean black semi-conducting
- 3. Insulation**
Tree -Retardant Cross-linked Polyethylene (TR-XLPE)
- 4. Insulation screen/Non-metallic insulation shield**
Free-strippable extra clean black semi-conducting
- 5. Concentric neutral conductor**
Round uncoated annealed copper wire
- 6. Jacket**
Black Linear Low Density Polyethylene (LDPE)

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

1 x 500 MCM AWG 35 kV

CU / XLPE / CTS / PE

(Copper Conductor, XLPE Insulated, Copper Tape Screen, PE Sheathed)
Standard Specification : ANSI/ICEA S-97-682, ANSI/ICEA T-27-581 & NEMA WC 53



Customer MERALCO
Country Phillipines



- 1. Conductor**
Soft or annealed uncoated compressed Class B.
- 2. Separator tape**
Semi-conductive tape conductor shield
- 3. Conductor screen / shield**
Super smooth extra clean black semi-conducting
- 4. Insulation**
Tree -Retardant Cross-linked Polyethylene (TR-XLPE)
- 5. Insulation screen / Non-metallic insulation shield**
Free-strippable extra clean black semi-conducting
- 6. Metallic screen**
Un-coated copper tape shield
- 7. Jacket**
Black Linear Low Density Polyethylene (LDPE)

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

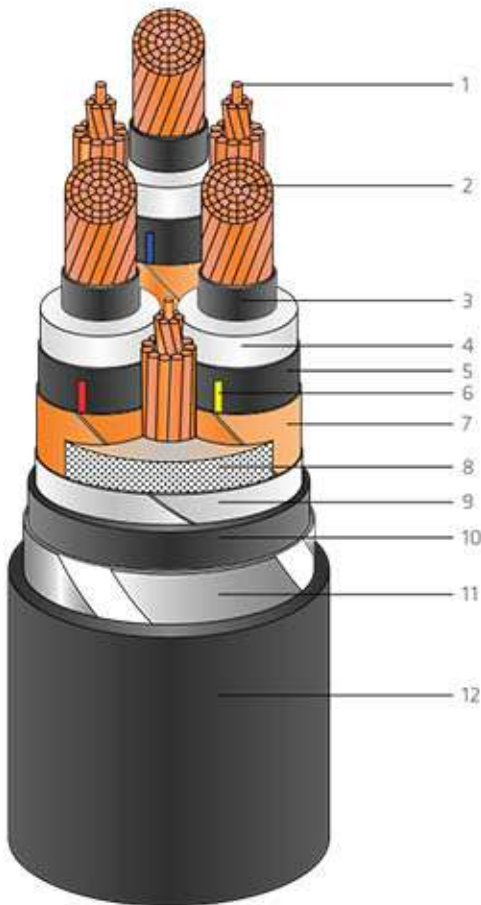
3 x 240 mm² 33 kV

CU / XLPE / CTS / HDPE / DSTA / HDPE

(Copper Conductor, XLPE Insulated, Copper Tape Screen, HDPE Inner sheath, Steel Tape, HDPE Sheathed)
Standard Specification : IEC 60502 - 2 & Customer specification



Customer ADWEA
Country Abu Dhabi - U.E.A



- 1. Intersitial conductor**
Compressed bare copper stranded
- 2. Conductor**
Compacted copper conductor
- 3. Conductor screen**
Extruded semi-conductive conductor shield
- 4. Insulation**
TR-XLPE insulation
- 5. Insulation screen**
Extruded semi-conductive insulation shield
- 6. Identification tape**
Red, Yellow & Blue
- 7. Metallic screen**
Un-coated copper tape
- 8. Filler**
Non Hydroscopic Polypropylene Yarn
- 9. Binder tape**
Polyester binder tape
- 10. Inner sheath/Armor bedding**
Black HDPE
- 11. Armoring**
Double Galvanized Steel Tape
- 12. Jacketing**
Black HDPE Jacket

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

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MEDIUM VOLTAGE CABLE



PT VOKSEL ELECTRIC Tbk.