

SPLN SNI

LMK



DIN



EXTRANA[®] CABLE

Quality Cables, Quality Living

LOW VOLTAGE ALUMINIUM CABLES



NAYA 450/750 V

Aluminium Conductor, PVC Insulated

SNI 04-6629.3; SNI 0225;



For building wire installed in conduit in dry location and interwiring in switch board and control panel.

1 CORE DIMENSIONAL AND ELECTRICAL DATA						
Cross-sectional area	Nominal Thickness Insulation	Overall Diameter (approx.)	Cable Weight (approx.)	Bending Radius	Max. DC Conductor Resistance at 20°C	Max. AC Conductor Resistance at 70°C
mm ²	mm	mm	kg/km	mm	Ω/km	Ω/km
16	1,0	7,0	80	56	1,91	2,295
25	1,2	8,6	123	69	1,20	1,442
35	1,2	9,7	162	78	0,868	1,043
50	1,4	11,5	214	92	0,641	0,770
70	1,4	13,2	282	106	0,443	0,532
95	1,6	15,4	386	123	0,320	0,385
120	1,6	17,0	468	136	0,253	0,304
150	1,8	18,9	577	151	0,206	0,248
185	2,0	21,1	713	169	0,164	0,197
240	2,2	24,0	928	192	0,125	0,150
300	2,4	26,8	1164	214	0,100	0,120
400	2,6	30,0	1454	240	0,0778	0,093

1 CORE DIMENSIONAL AND ELECTRICAL DATA							
Cross-sectional area	Max. Insulation Resistance		Voltage Drop at 70°C (approx.)		Max. Current Carrying Capacity at 30°C		Max. Short circuit current at 1 sec.
	at 20°C	at 70°C	1 phase	3 phase	In Air	In Ground	
mm ²	MΩ.km	MΩ.km	mV/A/m	mV/A/m	A	A	kA
16	40	0,0050	4,6043	3,9829	77	41	1,28
25	40	0,0050	2,8808	2,4950	101	57	1,98
35	40	0,0043	2,0889	1,8050	123	79	2,75
50	30	0,0043	1,5221	1,3399	154	103	3,91
70	30	0,0035	1,0814	0,9319	191	127	5,45
95	30	0,0035	0,7910	0,6794	226	153	7,37
120	30	0,0032	0,6352	0,5430	269	183	9,29
150	20	0,0032	0,5288	0,4503	305	-	11,59
185	20	0,0032	0,4334	0,3063	348	-	14,27
240	20	0,0032	0,3509	0,2928	410	-	18,48
300	20	0,0030	0,2997	0,2409	473	-	23,06
400	20	0,0028	0,2586	0,2088	566	-	27,47

NA2XA 0,6/1 kV

Aluminium Conductor, XLPE Insulated

SNI IEC 60502-1; SNI 0255



For building wire installed in conduit in dry location and interwiring in switch board and control panel.

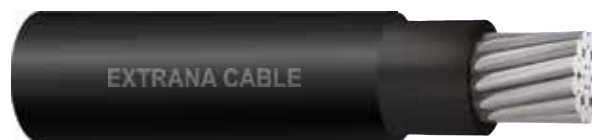
1 CORE DIMENSIONAL AND ELECTRICAL DATA						
Cross-sectional area	Nominal Thickness Insulation	Overall Diameter (approx.)	Cable Weight (approx.)	Bending Radius	Max. DC Conductor Resistance at 20°C	Max. AC Conductor Resistance at 90°C
mm ²	mm	mm	kg/km	mm	Ω/km	Ω/km
16	0,7	6,0	58	48	1,91	2,449
25	0,9	8,0	92	64	1,20	1,539
35	0,9	9,0	122	72	0,868	1,113
50	1,0	11,0	160	88	0,641	0,822
70	1,1	23,0	228	184	0,443	0,568
95	1,1	15,0	307	120	0,320	0,410
120	1,1	16,0	383	128	0,253	0,324
150	1,4	18,0	476	144	0,206	0,264
185	1,6	21,0	597	168	0,164	0,210
240	1,7	23,0	776	184	0,125	0,160
300	1,8	26,0	961	208	0,100	0,128
400	2,0	29,0	1219	232	0,0778	0,100
500	2,2	33,0	1549	264	0,0605	0,078

1 CORE DIMENSIONAL AND ELECTRICAL DATA					
Cross-sectional area	Max. Insulation Resistance	Voltage Drop at 90°C (approx.)		Max. Current Carrying Capacity at 30°C	Max. Short circuit current at 1 sec.
	at 20°C	1 phase	3 phase	In Air	
mm ²	MΩ.km	mV/A/m	mV/A/m	A	kA
16	1000	4,8837	4,2230	92	1,61
25	1000	3,0864	2,6679	121	2,49
35	1000	2,2277	1,9252	168	3,45
50	1000	1,6503	1,4525	204	4,89
70	1000	1,1470	0,9895	257	6,81
95	1000	0,8380	0,7206	316	9,19
120	1000	0,6703	0,5744	368	11,58
150	1000	0,5555	0,4740	421	14,43
185	1000	0,4537	0,3845	488	17,76
240	1000	0,3624	0,3035	583	22,98
300	1000	0,3065	0,2533	675	28,67
400	1000	0,2608	0,2117	790	38,14
500	1000	0,2277	0,1809	921	47,60

NAYY 0.6/1 kV

Aluminium Conductor, PVC Insulated,
PVC Sheathed

SNI IEC 60502-1; SNI 0255



Special Features on Request

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

Used as power cable for indoors, outdoors, cable trunking, and buried in the ground. Also used for power stations, industries and switchgear as well as for urban supply networks, where there is low exposure to mechanical damage.

1 CORE DIMENSIONAL AND ELECTRICAL DATA							
Cross-sectional area	Nominal Thickness		Overall Diameter (approx.)	Cable Weight (approx.)	Bending Radius	Max. DC Conductor Resistance at 20°C	Max. AC Conductor Resistance at 70°C
	Insulation	Sheath					
mm ²	mm	mm	mm	kg/km	mm	Ω/km	Ω/km
16	1,0	1,4	10,0	153	80	1,91	2,295
25	1,2	1,4	11,7	211	94	1,20	1,442
35	1,2	1,4	12,8	257	103	0,868	1,043
50	1,4	1,4	14,6	324	117	0,641	0,770
70	1,4	1,4	16,4	411	131	0,443	0,532
95	1,6	1,5	18,9	551	151	0,320	0,385
120	1,6	1,6	20,7	655	165	0,253	0,304
150	1,8	1,7	22,9	793	183	0,206	0,248
185	2,0	1,8	25,1	963	200	0,164	0,197
240	2,2	1,9	28,4	1222	227	0,125	0,150
300	2,4	2,0	31,5	1509	252	0,100	0,120
400	2,6	2,1	34,9	1858	279	0,0778	0,093
500	2,8	2,2	39,2	2350	314	0,0605	0,073

1 CORE DIMENSIONAL AND ELECTRICAL DATA							
Cross-sectional area	Voltage Drop at 70°C (approx.)		Max. Current Carrying Capacity at 30°C				Max. Short circuit current at 1 sec.
			In Air		In Ground		
	1 phase	3 phase	☉	☉☉	☉☉	☉☉☉	
mm ²	mV/A/m	mV/A/m	A	A	A	A	
16	4,6043	3,9829	80	74	85	80	1,28
25	2,8808	2,4950	107	113	110	105	1,98
35	2,0889	1,8050	136	131	131	141	2,75
50	1,5221	1,3399	163	160	156	168	3,91
70	1,0814	0,9319	207	202	191	204	5,45
95	0,7910	0,6794	255	249	230	245	7,37
120	0,6352	0,5430	299	291	262	279	9,29
150	0,5288	0,4503	343	333	298	312	11,59
185	0,4334	0,3063	390	384	333	353	14,27
240	0,3509	0,2928	470	460	399	410	18,48
300	0,2997	0,2409	542	530	440	464	23,06
400	0,2586	0,2088	657	642	504	538	27,47
500	0,2301	0,1827	765	744	582	610	34,31

NAYY 0.6/1 kV

Aluminium Conductor, PVC Insulated,
PVC Sheathed

SNI IEC 60502-1; SNI 0255

Used as power cable for indoors, outdoors, cable trunking, and buried in the ground. Also used for power stations, industries and switchgear as well as for urban supply networks, where there is low exposure to mechanical damage.



Special Features on Request

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

3 CORE DIMENSIONAL AND ELECTRICAL DATA						
Cross-sectional area	Nominal Thickness		Overall Diameter (approx.)	Cable Weight (approx.)	Bending Radius	Max. DC Conductor Resistance at 20°C
	Insulation	Sheath				
mm ²	mm	mm	mm	kg/km	mm	Ω/km
16	1,0	1,8	21,1	601	169	1,91
25	1,2	1,8	24,8	767	198	1,20
35	1,2	1,8	27,2	952	217	0,868
50	1,4	1,7	26,0	986	208	0,641
70	1,4	1,8	28,9	1301	231	0,443
95	1,6	1,9	33,5	1682	268	0,320
120	1,6	2,0	36,3	1973	291	0,253
150	1,8	2,2	39,8	2399	318	0,206
185	2,0	2,3	44,7	2936	358	0,164
240	2,2	2,5	49,8	3741	399	0,125
300	2,4	2,6	55,3	4534	442	0,100

3 CORE DIMENSIONAL AND ELECTRICAL DATA						
Cross-sectional area	Max. AC Conductor Resistance at 70°C	Voltage Drop at 70°C (approx.)		Max. Current Carrying Capacity at 30°C		Max. Short circuit current at 1 sec.
		1 phase	3 phase	In Air	In Ground	
mm ²	Ω/km	mV/A/m	mV/A/m	A	A	kA
16	2,295	4,6043	3,9829	64	71	1,28
25	1,442	2,8808	2,4950	84	92	1,98
35	1,043	2,0889	1,8050	104	110	2,75
50	0,770	1,5221	1,3399	127	131	3,91
70	0,532	1,0814	0,9319	159	163	5,45
95	0,385	0,7910	0,6794	195	195	7,37
120	0,304	0,6352	0,5430	227	227	9,29
150	0,248	0,5288	0,4503	259	251	11,59
185	0,197	0,4334	0,3063	295	283	14,27
240	0,150	0,3509	0,2928	347	331	18,48
300	0,120	0,2997	0,2409	399	371	23,06

NAYY 0.6/1 kV

Aluminium Conductor, PVC Insulated,
PVC Sheathed

SNI IEC 60502-1; SNI 0255

Used as power cable for indoors, outdoors, cable trunking, and buried in the ground. Also used for power stations, industries and switchgear as well as for urban supply networks, where there is low exposure to mechanical damage.



Special Features on Request

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

4 CORE DIMENSIONAL AND ELECTRICAL DATA						
Cross-sectional area	Nominal Thickness		Overall Diameter (approx.)	Cable Weight (approx.)	Bending Radius	Max. DC Conductor Resistance at 20°C
	Insulation	Sheath				
mm ²	mm	mm	mm	kg/km	mm	Ω/km
16	1,0	1,8	22,9	682	183	1,91
25	1,2	1,8	27,0	963	216	1,20
35	1,2	1,8	29,8	1186	238	0,868
50	1,4	1,8	29,7	1253	238	0,641
70	1,4	2,0	34,1	1630	273	0,443
95	1,6	2,1	38,1	2140	305	0,320
120	1,6	2,2	42,6	2611	341	0,253
150	1,8	2,4	46,8	3110	375	0,206
185	2,0	2,5	51,8	3876	414	0,164
240	2,2	2,8	59,5	4865	476	0,125
300	2,4	3,0	66,1	5925	529	0,100

4 CORE DIMENSIONAL AND ELECTRICAL DATA						
Cross-sectional area	Max. AC Conductor Resistance at 70°C	Voltage Drop at 70°C (approx.)		Max. Current Carrying Capacity at 30°C		Max. Short circuit current at 1 sec.
		1 phase	3 phase	In Air	In Ground	
mm ²	Ω/km	mV/A/m	mV/A/m	A	A	kA
16	2,295	4,6043	3,9829	64	71	1,28
25	1,442	2,8808	2,4950	84	92	1,98
35	1,043	2,0889	1,8050	104	110	2,75
50	0,770	1,5221	1,3399	127	131	3,91
70	0,532	1,0814	0,9319	159	163	5,45
95	0,385	0,7910	0,6794	195	195	7,37
120	0,304	0,6352	0,5430	227	227	9,29
150	0,248	0,5288	0,4503	259	251	11,59
185	0,197	0,4334	0,3063	295	283	14,27
240	0,150	0,3509	0,2928	347	331	18,48
300	0,120	0,2997	0,2409	399	371	23,06

NA2XY 0.6/1 kV

Aluminium Conductor, XLPE Insulated,
PVC Sheathed

SNI IEC 60502-1; SNI 0255



Special Features on Request

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

Used as power cable for indoors, outdoors, cable trunking, and buried in the ground. Also used for power stations, industries and switchgear as well as for urban supply networks, where there is low exposure to mechanical damage.

1 CORE DIMENSIONAL AND ELECTRICAL DATA							
Cross-sectional area	Nominal Thickness		Overall Diameter (approx.)	Cable Weight (approx.)	Bending Radius	Max. DC Conductor Resistance at 20°C	Max. AC Conductor Resistance at 90°C
	Insulation	Sheath					
mm ²	mm	mm	mm	kg/km	mm	Ω/km	Ω/km
16	0,7	1,4	9,3	125	74	1,91	2,449
25	0,9	1,4	10,9	174	88	1,20	1,539
35	0,9	1,4	12,0	214	96	0,868	1,113
50	1,0	1,4	13,6	267	108	0,641	0,822
70	1,1	1,4	15,5	351	124	0,443	0,568
95	1,1	1,5	17,5	458	140	0,320	0,410
120	1,2	1,6	19,5	558	156	0,253	0,324
150	1,4	1,6	21,4	679	171	0,206	0,264
185	1,7	1,8	26,7	827	214	0,164	0,210
240	1,8	1,9	29,5	1054	236	0,125	0,160
300	2,0	2,0	32,9	1298	264	0,100	0,128
400	2,2	2,1	36,9	1610	295	0,0778	0,100
500	2,4	2,3	41,6	2054	333	0,0605	0,078

1 CORE DIMENSIONAL AND ELECTRICAL DATA							
Cross-sectional area	Voltage Drop at 90°C (approx.)		Max. Current Carrying Capacity at 30°C				Max. Short circuit current at 1 sec.
			In Air		In Ground		
	1 phase	3 phase	●●●	●●●	●●●	●●●	
mm ²	mV/A/m	mV/A/m	A	A	A	A	kA
16	4,8837	4,2230	84	102	91	131	1,61
25	3,0864	2,6679	112	144	117	170	2,49
35	2,2277	1,9252	138	168	140	206	3,45
50	1,6503	1,4525	170	203	166	245	4,89
70	1,1470	0,9895	218	259	203	299	6,81
95	0,8380	0,7206	269	317	242	361	9,19
120	0,6703	0,5744	312	366	275	411	11,58
150	0,5555	0,4740	360	430	310	465	14,43
185	0,4537	0,3845	425	494	350	530	17,76
240	0,3624	0,3035	510	588	406	618	22,98
300	0,3065	0,2533	590	684	458	707	28,67
400	0,2608	0,2117	710	828	528	826	38,14
500	0,2277	0,1809	820	960	599	950	47,60

NA2XY 0.6/1 kV

Aluminium Conductor, XLPE Insulated, PVC Sheathed

SNI IEC 60502-1; SNI 0255



Special Features on Request

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

Used as power cable for indoors, outdoors, cable trunking, and buried in the ground. Also used for power stations, industries and switchgear as well as for urban supply networks, where there is low exposure to mechanical damage.

3 CORE DIMENSIONAL AND ELECTRICAL DATA						
Cross-sectional area	Nominal Thickness		Overall Diameter (approx.)	Cable Weight (approx.)	Bending Radius	Max. DC Conductor Resistance at 20°C
	Insulation	Sheath				
mm ²	mm	mm	mm	kg/km	mm	Ω/km
16	0,7	1,8	19,9	465	159	1,91
25	0,9	1,8	23,3	636	186	1,20
35	0,9	1,8	25,6	772	205	0,868
50	1,0	1,9	29,3	943	234	0,641
70	1,1	2,1	34,3	1290	274	0,443
95	1,1	2,2	38,4	1633	307	0,320
120	1,2	2,3	42,9	2416	343	0,253
150	1,4	2,5	47,5	2463	380	0,206
185	1,6	2,6	52,3	2977	418	0,164
240	1,7	2,9	59,2	3818	474	0,125
300	1,8	3,1	65,1	4655	521	0,100

3 CORE DIMENSIONAL AND ELECTRICAL DATA						
Cross-sectional area	Max. AC Conductor Resistance at 90°C	Voltage Drop at 90°C (approx.)		Max. Current Carrying Capacity at 30°C		Max. Short circuit current at 1 sec.
		1 phase	3 phase	In Air	In Ground	
mm ²	Ω/km	mV/A/m	mV/A/m	A	A	kA
16	2,449	4,8837	4,2230	73	81	1,61
25	1,539	3,0864	2,6679	96	106	2,49
35	1,113	2,2277	1,9252	119	126	3,45
50	0,822	1,6503	1,4525	147	151	4,89
70	0,568	1,1470	0,9895	183	187	6,81
95	0,410	0,8380	0,7206	224	224	9,19
120	0,324	0,6703	0,5744	261	261	11,58
150	0,264	0,5555	0,4740	297	289	14,43
185	0,210	0,4537	0,3845	339	324	17,76
240	0,160	0,3624	0,3035	398	379	22,98
300	0,128	0,3065	0,2533	426	426	28,67

NA2XY 0.6/1 kV

Aluminium Conductor, XLPE Insulated,
PVC Sheathed

SNI IEC 60502-1; SNI 0255



Special Features on Request

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

Used as power cable for indoors, outdoors, cable trunking, and buried in the ground. Also used for power stations, industries and switchgear as well as for urban supply networks, where there is low exposure to mechanical damage.

4 CORE DIMENSIONAL AND ELECTRICAL DATA						
Cross-sectional area	Nominal Thickness		Overall Diameter (approx.)	Cable Weight (approx.)	Bending Radius	Max. DC Conductor Resistance at 20°C
	Insulation	Sheath				
mm ²	mm	mm	mm	kg/km	mm	Ω/km
16	0,7	1,8	21,3	661	170	1,91
25	0,9	1,8	25,4	895	203	1,20
35	0,9	1,9	28,2	1129	226	0,868
50	1,0	2	32,6	1409	261	0,641
70	1,1	2,2	37,7	1859	302	0,443
95	1,1	2,3	42,7	2106	342	0,320
120	1,2	2,5	47,4	3016	379	0,253
150	1,4	2,6	52,3	3753	418	0,206
185	1,6	2,8	58,3	3889	466	0,164
240	1,7	3,1	65,5	4795	524	0,125
300	1,8	3,3	72,4	6755	579	0,100

4 CORE DIMENSIONAL AND ELECTRICAL DATA						
Cross-sectional area	Max. AC Conductor Resistance at 90°C	Voltage Drop at 90°C (approx.)		Max. Current Carrying Capacity at 30°C		Max. Short circuit current at 1 sec.
		1 phase	3 phase	In Air	In Ground	
mm ²	Ω/km	mV/A/m	mV/A/m	A	A	kA
16	2,449	4,8837	4,2230	73	81	1,61
25	1,539	3,0864	2,6679	96	106	2,49
35	1,113	2,2277	1,9252	119	126	3,45
50	0,822	1,6503	1,4525	147	151	4,89
70	0,568	1,1470	0,9895	183	187	6,81
95	0,410	0,8380	0,7206	224	224	9,19
120	0,324	0,6703	0,5744	261	261	11,58
150	0,264	0,5555	0,4740	297	289	14,43
185	0,210	0,4537	0,3845	339	324	17,76
240	0,160	0,3624	0,3035	398	379	22,98
300	0,128	0,3065	0,2533	426	426	28,67

NAYR(AI)Y 0.6/1 kV

Aluminium Conductor, PVC Insulated, Aluminium Round Wire Armor, PVC Sheathed)

SNI IEC 60502-1; SNI 0255



Special Features on Request

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

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.

1 CORE DIMENSIONAL AND ELECTRICAL DATA							
Cross-sectional area	Nominal Thickness		Overall Diameter (approx.)	Cable Weight (approx.)	Bending Radius	Max. DC Conductor Resistance at 20°C	Max. AC Conductor Resistance at 70°C
	Insulation	Sheath					
mm ²	mm	mm	mm	kg/km	mm	Ω/km	Ω/km
16	1,0	1,8	14,0	318	269	1,91	2,295
25	1,2	1,8	15,0	448	316	1,20	1,442
35	1,2	1,8	17,6	513	336	0,868	1,043
50	1,4	1,8	18,7	597	368	0,641	0,770
70	1,4	1,8	20,5	743	408	0,443	0,532
95	1,6	1,8	26,6	907	449	0,320	0,385
120	1,6	1,8	28,8	1031	478	0,253	0,304
150	1,8	1,9	30,9	1207	518	0,206	0,248
185	2,0	1,9	35,4	1395	555	0,164	0,197
240	2,2	2,1	38,9	1839	636	0,125	0,150
300	2,4	2,2	42,4	2229	699	0,100	0,120
400	2,6	2,3	47,9	2650	762	0,0778	0,093
500	2,8	2,5	52,0	3412	861	0,0605	0,073

1 CORE DIMENSIONAL AND ELECTRICAL DATA							
Cross-sectional area	Voltage Drop at 70°C (approx.)		Max. Current Carrying Capacity at 30°C				Max. Short circuit current at 1 sec.
			In Air		In Ground		
	1 phase	3 phase	●●●	●●●	●●●	●●●	
mm ²	mV/A/m	mV/A/m	A	A	A	A	kA
16	4,6049	3,9829	85	74	79	80	1,28
25	2,8875	2,4950	107	113	99	105	1,98
35	2,0897	1,8050	127	131	119	141	2,75
50	1,5529	1,3399	148	160	98	168	3,91
70	1,0823	0,9319	180	202	167	204	5,45
95	0,7921	0,6794	212	249	197	245	7,37
120	0,6363	0,5430	240	291	222	279	9,29
150	0,5303	0,4503	265	333	246	312	11,59
185	0,4348	0,3063	297	384	276	353	14,27
240	0,3524	0,2928	340	460	316	410	18,48
300	0,3013	0,2409	380	530	352	464	23,06
400	0,2608	0,2088	428	642	397	538	27,47
500	0,2325	0,1827	480	744	445	610	47,60

NAYRY 0.6/1 kV

Aluminium Conductor, PVC Insulated,
Galvanized Steel Wire Armor,
PVC Sheathed

SNI IEC 60502-1; SNI 0255

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



Special Features on Request

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

3 CORE DIMENSIONAL AND ELECTRICAL DATA						
Cross-sectional area	Nominal Thickness		Overall Diameter (approx.)	Cable Weight (approx.)	Bending Radius	Max. DC Conductor Resistance at 20°C
	Insulation	Sheath				
mm ²	mm	mm	mm	kg/km	mm	Ω/km
16	1,0	1,8	24,7	444	387	1,91
25	1,2	1,8	28,5	512	446	1,20
35	1,2	1,9	30,9	555	486	0,868
50	1,4	2,1	36,5	656	568	0,641
70	1,4	2,2	40,7	732	638	0,443
95	1,6	2,4	47,0	845	738	0,320
120	1,6	2,6	51,1	919	805	0,253
150	1,8	2,7	55,5	998	875	0,206
185	2,0	2,9	61,0	1097	962	0,164
240	2,2	3,1	68,2	1227	1070	0,125
300	2,4	3,4	76,2	1371	1195	0,100

3 CORE DIMENSIONAL AND ELECTRICAL DATA						
Cross-sectional area	Max. AC Conductor Resistance at 70°C	Voltage Drop at 70°C (approx.)		Max. Current Carrying Capacity at 30°C		Max. Short circuit current at 1 sec.
		1 phase	3 phase	In Air	In Ground	
mm ²	Ω/km	mV/A/m	mV/A/m	A	A	kA
16	2,295	4,6049	3,9829	62	69	1,22
25	1,442	2,8875	2,4950	83	93	1,90
35	1,043	2,0897	1,8050	102	111	2,66
50	0,770	1,5529	1,3399	124	133	3,80
70	0,532	1,0823	0,9319	158	165	5,32
95	0,385	0,7921	0,6794	190	198	7,22
120	0,304	0,6363	0,5430	221	227	9,12
150	0,248	0,5303	0,4503	252	254	11,4
185	0,197	0,4348	0,3063	289	290	14,06
240	0,150	0,3524	0,2928	339	341	18,24
300	0,120	0,3013	0,2409	377	387	22,80

NAYRY 0.6/1 kV

Aluminium Conductor, PVC Insulated,
Galvanized Steel Wire Armor,
PVC Sheathed

SNI IEC 60502-1; SNI 0255



Special Features on Request

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

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.

4 CORE DIMENSIONAL AND ELECTRICAL DATA						
Cross-sectional area	Nominal Thickness		Overall Diameter (approx.)	Cable Weight (approx.)	Bending Radius	Max. DC Conductor Resistance at 20°C
	Insulation	Sheath				
mm ²	mm	mm	mm	kg/km	mm	Ω/km
16	1,0	1,8	26,5	1263	476	1,91
25	1,2	1,9	30,8	1789	554	1,20
35	1,2	2,1	34,9	2381	627	0,868
50	1,4	2,2	39,6	3036	712	0,641
70	1,4	2,4	44,3	4004	797	0,443
95	1,6	2,6	51,6	5483	928	0,320
120	1,6	2,8	55,9	6666	1005	0,253
150	1,8	2,9	61,2	8068	1101	0,206
185	2,0	3,1	66,8	9752	1202	0,164
240	2,2	3,4	76,1	12796	1369	0,125
300	2,4	3,7	84,2	15871	1515	0,100

4 CORE DIMENSIONAL AND ELECTRICAL DATA						
Cross-sectional area	Max. AC Conductor Resistance at 70°C	Voltage Drop at 70°C (approx.)		Max. Current Carrying Capacity at 30°C		Max. Short circuit current at 1 sec.
		1 phase	3 phase	In Air	In Ground	
mm ²	Ω/km	mV/A/m	mV/A/m	A	A	kA
16	2,295	4,6049	3,9829	62	69	1,22
25	1,442	2,8875	2,4950	83	93	1,90
35	1,043	2,0897	1,8050	102	111	2,66
50	0,770	1,5529	1,3399	124	133	3,80
70	0,532	1,0823	0,9319	158	165	5,32
95	0,385	0,7921	0,6794	190	198	7,22
120	0,304	0,6363	0,5430	221	227	9,12
150	0,248	0,5303	0,4503	252	254	11,4
185	0,197	0,4348	0,3063	289	290	14,06
240	0,150	0,3524	0,2928	339	341	18,24
300	0,120	0,3013	0,2409	377	387	22,80

NAYFGbY 0.6/1 kV

Aluminium Conductor, PVC Insulated,
Galvanized Steel Flat Armoured,
PVC Sheathed

SNI IEC 60502-1; SNI 0255



Special Features on Request

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

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.

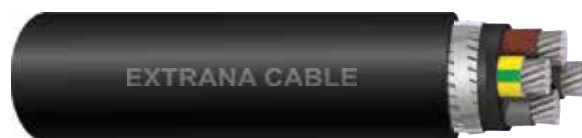
3 CORE DIMENSIONAL AND ELECTRICAL DATA						
Cross-sectional area	Nominal Thickness		Overall Diameter (approx.)	Cable Weight (approx.)	Bending Radius	Max. DC Conductor Resistance at 20°C
	Insulation	Sheath				
mm ²	mm	mm	mm	kg/km	mm	Ω/km
16	1,0	1,8	23,6	1122	424	1,91
25	1,2	1,8	27,4	1535	493	1,20
35	1,2	1,9	29,9	1914	538	0,868
50	1,4	2,0	33,8	2454	608	0,641
70	1,4	2,2	38,4	3183	691	0,443
95	1,6	2,4	43,6	4138	784	0,320
120	1,6	2,5	47,6	5112	856	0,253
150	1,8	2,6	52,0	6159	935	0,206
185	2,0	2,8	57,4	7474	1033	0,164
240	2,2	3,0	64,2	9586	1155	0,125
300	2,4	3,2	70,5	11799	1268	0,100

3 CORE DIMENSIONAL AND ELECTRICAL DATA						
Cross-sectional area	Max. AC Conductor Resistance at 70°C	Voltage Drop at 70°C (approx.)		Max. Current Carrying Capacity at 30°C		Max. Short circuit current at 1 sec.
		1 phase	3 phase	In Air	In Ground	
mm ²	Ω/km	mV/A/m	mV/A/m	A	A	kA
16	2,295	4,6049	3,9829	63	70	1,28
25	1,442	2,8875	2,4950	83	91	1,98
35	1,043	2,0897	1,8050	102	109	2,75
50	0,770	1,5529	1,3399	126	130	3,91
70	0,532	1,0823	0,9319	158	162	5,45
95	0,385	0,7921	0,6794	193	193	7,37
120	0,304	0,6363	0,5430	225	225	9,29
150	0,248	0,5303	0,4503	256	248	11,59
185	0,197	0,4348	0,3063	292	280	14,27
240	0,150	0,3524	0,2928	343	327	18,48
300	0,120	0,3013	0,2409	394	367	23,06

NAYFGbY 0.6/1 kV

Aluminium Conductor, PVC Insulated,
Galvanized Steel Flat Armoured,
PVC Sheathed

SNI IEC 60502-1; SNI 0255



Special Features on Request

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

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.

4 CORE DIMENSIONAL AND ELECTRICAL DATA						
Cross-sectional area	Nominal Thickness		Overall Diameter (approx.)	Cable Weight (approx.)	Bending Radius	Max. DC Conductor Resistance at 20°C
	Insulation	Sheath				
mm ²	mm	mm	mm	kg/km	mm	Ω/km
16	1	1,8	25,4	1362	457	1,91
25	1,2	1,9	29,8	1904	536	1,20
35	1,2	2,0	32,6	2390	586	0,868
50	1,4	2,2	37,6	3171	676	0,641
70	1,4	2,3	42,0	4190	755	0,443
95	1,6	2,5	48,1	5390	865	0,320
120	1,6	2,6	52,2	6755	939	0,253
150	1,8	2,8	57,6	7953	1036	0,206
185	2	3,0	63,2	10033	1137	0,164
240	2,2	3,2	70,7	12603	1272	0,125
300	2,4	3,5	78,3	15197	1409	0,100

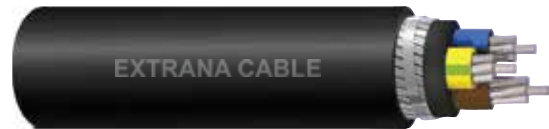
4 CORE DIMENSIONAL AND ELECTRICAL DATA						
Cross-sectional area	Max. AC Conductor Resistance at 70°C	Voltage Drop at 70°C (approx.)		Max. Current Carrying Capacity at 30°C		Max. Short circuit current at 1 sec.
		1 phase	3 phase	In Air	In Ground	
mm ²	Ω/km	mV/A/m	mV/A/m	A	A	kA
16	2,295	4,6049	3,9829	63	70	1,28
25	1,442	2,8875	2,4950	83	91	1,98
35	1,043	2,0897	1,8050	102	109	2,75
50	0,770	1,5529	1,3399	126	130	3,91
70	0,532	1,0823	0,9319	158	162	5,45
95	0,385	0,7921	0,6794	193	193	7,37
120	0,304	0,6363	0,5430	225	225	9,29
150	0,248	0,5303	0,4503	256	248	11,59
185	0,197	0,4348	0,3063	292	280	14,27
240	0,150	0,3524	0,2928	343	327	18,48
300	0,120	0,3013	0,2409	394	367	23,06

NA2XFGbY

Aluminium Conductor, XLPE Insulated,
Galvanized Steel Flat Armoured,
PVC Sheathed

SNI IEC 60502-1; SNI 0255

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



Special Features on Request

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

3 CORE DIMENSIONAL AND ELECTRICAL DATA						
Cross-sectional area	Nominal Thickness		Overall Diameter (approx.)	Cable Weight (approx.)	Bending Radius	Max. DC Conductor Resistance at 20°C
	Insulation	Sheath				
mm ²	mm	mm	mm	kg/km	mm	Ω/km
16	0,7	1,8	22,3	902	356	1,91
25	0,9	1,8	26,1	1176	417	1,20
35	0,9	1,9	28,6	1407	457	0,868
50	1,0	2,0	32,1	1317	513	0,641
70	1,1	2,1	36,9	1695	590	0,443
95	1,1	2,3	41,2	2087	659	0,320
120	1,2	2,4	45,7	2457	731	0,253
150	1,4	2,6	50,3	2895	804	0,206
185	1,6	2,7	55,1	3476	881	0,164
240	1,7	3,0	62,0	4300	992	0,125
300	1,8	3,2	67,9	5020	1086	0,100

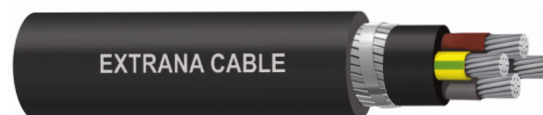
3 CORE DIMENSIONAL AND ELECTRICAL DATA						
Cross-sectional area	Max. AC Conductor Resistance at 90°C	Voltage Drop at 90°C (approx.)		Max. Current Carrying Capacity at 30°C		Max. Short circuit current at 1 sec.
		1 phase	3 phase	In Air	In Ground	
mm ²	Ω/km	mV/A/m	mV/A/m	A	A	kA
16	2,449	4,8842	4,2230	73	80	1,61
25	1,539	3,0864	2,6679	95	105	2,49
35	1,113	2,2284	1,9252	118	124	3,45
50	0,822	1,6511	1,4525	145	149	4,89
70	0,568	1,1485	0,9895	182	186	6,81
95	0,410	0,8391	0,7206	222	222	9,19
120	0,324	0,6714	0,5744	258	258	11,58
150	0,264	0,5509	0,4740	292	285	14,43
185	0,210	0,4550	0,3845	336	321	17,76
240	0,1600	0,3639	0,3035	394	375	22,98
300	0,1280	0,3080	0,2533	453	422	28,67

NA2XFGbY

Aluminium Conductor, XLPE Insulated,
Galvanized Steel Flat Armoured,
PVC Sheathed

SNI IEC 60502-1; SNI 0255

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



Special Features on Request

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

4 CORE DIMENSIONAL AND ELECTRICAL DATA						
Cross-sectional area	Nominal Thickness		Overall Diameter (approx.)	Cable Weight (approx.)	Bending Radius	Max. DC Conductor Resistance at 20°C
	Insulation	Sheath				
mm ²	mm	mm	mm	kg/km	mm	Ω/km
16	0,7	1,8	23,9	1017	382	1,91
25	0,9	1,9	28,3	1359	452	1,20
35	0,9	2,0	31,2	1627	499	0,868
50	1,0	2,1	35,5	1621	568	0,641
70	1,1	2,3	40,6	2119	649	0,443
95	1,1	2,4	45,1	2611	721	0,320
120	1,2	2,6	50,2	3127	803	0,253
150	1,4	2,7	55,1	3683	881	0,206
185	1,6	2,9	61,1	4430	977	0,164
240	1,7	3,2	68,3	5475	1092	0,125
300	1,8	3,4	75,2	6469	1203	0,100

4 CORE DIMENSIONAL AND ELECTRICAL DATA						
Cross-sectional area	Max. AC Conductor Resistance at 90°C	Voltage Drop at 90°C (approx.)		Max. Current Carrying Capacity at 30°C		Max. Short circuit current at 1 sec.
		1 phase	3 phase	In Air	In Ground	
mm ²	Ω/km	mV/A/m	mV/A/m	A	A	kA
16	2,449	4,8842	4,2230	73	80	1,61
25	1,539	3,0864	2,6679	95	105	2,49
35	1,113	2,2284	1,9252	118	124	3,45
50	0,822	1,6511	1,4525	145	149	4,89
70	0,568	1,1485	0,9895	182	186	6,81
95	0,410	0,8391	0,7206	222	222	9,19
120	0,324	0,6714	0,5744	258	258	11,58
150	0,264	0,5509	0,4740	292	285	14,43
185	0,210	0,4550	0,3845	336	321	17,76
240	0,160	0,3639	0,3035	394	375	22,98
300	0,128	0,3080	0,2533	453	422	28,67

NFA2X 0.6/1 kV

Twisted XLPE Insulated cable

SPLN D3-010-1



For service connection lines to homes/buildings, whose installation is spanned between the pole and homes/buildings by means of pull clamps.

DIMENSIONAL AND ELECTRICAL DATA

Number of core	Cross-sectional area	Size	Nominal Thickness Insulation	Overall Diameter (approx.)	Cable Weight (approx.)	Bending Radius
n	mm ²	mm ²	mm	mm	kg/km	mm
2	10	2 x 10	1,2	14,0	100	260
2	16	2 x 16	1,2	16,0	145	310
4	10	4 x 10	1,2	17,0	201	260
4	16	4 x 16	1,2	19,0	290	310
4	25	4 x 25	1,6	23,0	438	440
4	35	4 x 35	1,6	27,0	605	520

DIMENSIONAL AND ELECTRICAL DATA

Number of core	Max. Conductor Resistance		Min. DC Insulation Resistance at 20°C	Max. Current Carrying Capacity at 30°C	Max. Short circuit current at 1 sec.
	DC at 20°C	AC at 70°C	Phase	in air	
n	Ω/km	Ω/km	MΩ.km	A	kA
2	3,08	3,701	760	54	1,03
2	1,91	2,295	630	72	1,61
4	3,08	3,701	760	54	1,03
4	1,91	2,295	630	72	1,61
4	1,20	1,442	600	102	2,49
4	0,868	1,043	580	125	3,45

NFA2X-T 0.6/1 kV

Twisted XLPE insulated cable
with neutral messenger

SPLN D3-010-1



For low voltage overhead cable line. The installation is stretched between the poles using pull clamps on the posts start and end, as well as hanging clamps on the neutral core of the cable on other posts.

DIMENSIONAL AND ELECTRICAL DATA

Size	Nominal Thickness Insulation		Overall Diameter (approx.)	Cable Weight (approx.)	Bending Radius
	Phase	Neutral			
mm ²	mm	mm	mm	kg/km	mm
2 x 35 + 35	1,6	1,5	24,0	479	432
2 x 50 + 50	1,6	1,6	27,0	643	486
2 x 70 + 70	1,8	1,6	32,0	898	576
3 x 35 + 35	1,6	1,5	27,0	622	486
3 x 50 + 50	1,6	1,6	30,0	1018	540
3 x 70 + 70	1,8	1,6	36,0	1165	648
3 x 95 + 95	1,8	1,6	40,0	1479	720
3 x 120 + 95	1,8	1,6	44,0	1845	792

DIMENSIONAL AND ELECTRICAL DATA

Size	Max. DC Insulation Resistance at 20°C		Min. DC Insulation Resistance at 20°C		Max. Current Carrying Capacity at 30°C in Air	Max. Short circuit current at 1 sec.
	Phase	Neutral	Phase	Neutral		
mm ²	MΩ.km	MΩ.km	MΩ.km	MΩ.km	A	kA
2 x 35 + 35	0,868	0,836	580	570	125	3,45
2 x 50 + 50	0,641	0,585	500	480	154	4,89
2 x 70 + 70	0,443	0,418	470	460	196	6,81
3 x 35 + 35	0,868	0,836	580	570	125	3,45
3 x 50 + 50	0,641	0,585	500	480	154	4,89
3 x 70 + 70	0,443	0,418	470	460	196	6,81
3 x 95 + 95	0,320	0,308	450	430	242	9,19
3 x 120 + 95	0,253	0,308	440	460	296	11,42

DERATING FACTORS

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

Maximum conductor temperature °C	Ambient ground 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

Table 2. Correction factors for ambient ground temperatures other than 20 °C

Maximum conductor temperature °C	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

Table 3. Correction factors for depths of laying other than 0.8 m for direct buried cables

Depth of laying mtr	Single-core cables		Three-core cables
	Nominal Conductor size mm ²		
	< 185 mm ²	> 185 mm ²	
0.5	1.04	1.06	1.04
0.6	1.02	1.04	1.03
1.0	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

Table 4. Correction factors for depths of laying other than 0,8 m for cables in ducts

Depth of laying mtr	Single-core cables		Three-core cables
	Nominal Conductor size mm ²		
	< 185 mm ²	> 185 mm ²	
0.5	1.04	1.05	1.03
0.6	1.02	1.03	1.02
1.0	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

Table 5. Correction factor for soil thermal resistivities other than 1,5 K.m/W for direct buried single-core cables

Nominal area off conductor mm ²	Values of soil thermal resistivity K.m/W						
	0.7	0.8	0.9	1	2	2.5	3
16	1.29	1.24	1.19	1.15	0.89	0.82	0.75
25	1.30	1.25	1.20	1.16	0.89	0.81	0.75
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	0.89	0.80	0.74
150	1.35	1.29	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

Table 6. Correction factor for soil thermal resistivities other than 1,5 K.m/W single-core cables in buried duct

Nominal area off conductor mm ²	Values of soil thermal resistivity K.m/W						
	0.7	0.8	0.9	1	2	2.5	3
16	1.20	1.17	1.14	1.11	0.92	0.85	0.79
25	1.21	1.17	1.14	1.12	0.91	0.85	0.79
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	0.79
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	1.123	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

Table 7. Correction factor for soil thermal resistivities other than 1,5 K.m/W for direct buried three-core cables

Nominal area off conductor mm ²	Values of soil thermal resistivity K.m/W						
	0.7	0.8	0.9	1	2	2.5	3
16	1.23	1.19	1.16	1.13	0.91	0.84	0.78
25	1.24	1.20	1.16	1.13	0.91	0.84	0.78
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	1.15	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

Table 8. Correction factor for soil thermal resistivities other than 1,5 K.m/W three-core cables in buried duct

Nominal area off conductor mm ²	Values of soil thermal resistivity K.m/W						
	0.7	0.8	0.9	1	2	2.5	3
16	1.12	1.11	1.09	1.08	0.94	0.89	0.84
25	1.14	1.12	1.10	1.08	0.94	0.89	0.84
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

Table 9. Correction factor 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	0.8	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	0.76	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	0.77	-
9	0.47	0.60	0.70	-	-
10	0.46	0.59	0.69	-	-
11	0.45	0.57	0.69	-	-
12	0.43	0.56	0.68	-	-

Table 10. Correction factor 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	-	-

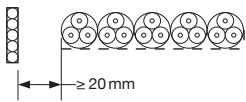
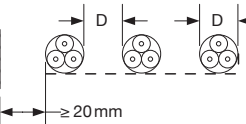
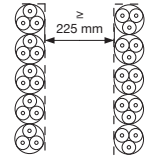
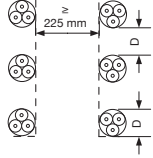
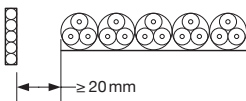
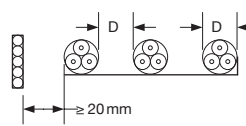
Table 11. Correction factor for groups of three-core cables in single way ducts in horizontal formation

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	-	-

Table 12. Correction factor 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	-	-

Table 13. Reduction factors for groups of more than one multi-core cable in air - To be applied to the current-carrying capacity for one multi-core cable in free air

Method of Installation		Number of Trays	Number of cables					
			1	2	3	4	6	9
Cables on perforated trays		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	0.87	-
		3	1.00	0.98	0.95	0.91	0.85	-
Cables on vertical perforated trays		1	1.00	0.88	0.82	0.78	0.73	0.72
		2	1.00	0.88	0.81	0.76	0.71	0.70
		1	1.00	0.91	0.89	0.88	0.87	-
		2	1.00	0.91	0.88	0.87	0.85	-
Cables on ladder supports, cleats, etc		1	1.00	0.87	0.82	0.80	0.79	0.78
		2	1.00	0.86	0.80	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	-

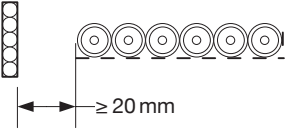
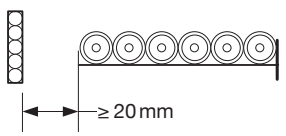
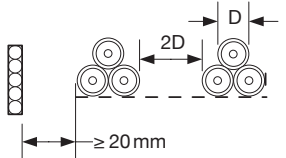
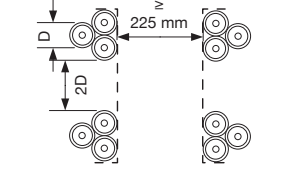
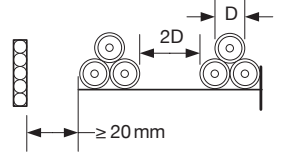
Note 1. Values given are averages for the cable types and range of conductor size considered. The spread of values is generally less than 5 %.

Note 2. Factors apply to single layer groups of cables as shown above and do not apply when cables are installed in more than one layer touching each other. Values for such installations may be significantly lower and must be determined by an appropriate method.

Note 3. Values are given for vertical spacing between trays of 300 mm and least 20 mm between trays and wall. For closer spacing, the factors should be reduced.

Note 4. Values are given for horizontal spacing between trays of 225 mm with trays mounted back to back. For closer spacing, the factors should be reduced.

Table 14. Reduction factors for groups of more than one circuit of single-core cables – To be applied to the current-carrying capacity for one circuit of single-core cables in free air

Method of Installation	Number of Trays	Number of three-phase circuit (Note 5)			Use as a multiplier to 1 2 3 rating for
		1	2	3	
Perforated trays (Note 3) 	1	0.98	0.91	0.87	Three cables in horizontal formation
	2	0.96	0.87	0.81	
	3	0.95	0.85	0.78	
Ladder supports, cleats, etc (Note 3) 	1	1.00	0.97	0.96	
	2	0.98	0.93	0.89	
	3	0.97	0.90	0.86	
Perforated trays (Note 3) 	1	1.00	0.98	0.96	Three cables in trefoil formation
	2	0.97	0.93	0.89	
	3	0.96	0.92	0.86	
Vertical perforated trays (Note 4) 	1	1.00	0.91	0.89	
	2	1.00	0.90	0.86	
Ladder supports, cleats, etc (Note 3) 	1	1.00	1.00	1.00	
	2	0.97	0.95	0.93	
	3	0.96	0.94	0.90	

Note 1. Values given are averages for the cable types and range of conductor size considered. The spread of values is generally less than 5 %.

Note 2. Factors are given for single layers of cables (or trefoil groups) as shown in the table and do not apply when cables are installed in more than one layer touching each other. Values for such installations may be significantly lower and must be determined by an appropriate method.

Note 3. Values are given for vertical spacing between trays of 300 mm. For closer spacing, the factors should be reduced.

Note 4. Values are given for horizontal spacing between trays of 225 mm with trays mounted back to back. For closer spacing, the factors should be reduced.

Note 5. For circuit having more than one cable in parallel per phase, each three phase set of conductors should be considered as a circuit for the purpose of this table.

APPROXIMATE VOLTAGE DROP (Aluminium Conductor) (mV/A/m)

ELECTRICAL DATA						
Conductor cross sectional area mm ²	XLPE Insulated			PVC Insulated		
	Single Phase @ 90°C		3 Phase @ 90°C	Single Phase @ 70°C 3		3 Phase @ 70°C
	Unarmoured	Armoured		Unarmoured	Armoured	
10	7.8824	7.8962	6.8168	7.4030	7.4268	6.4030
16	4.8837	4.8842	4.2230	4.6043	4.6049	3.9829
25	3.0858	3.0864	2.6679	2.8808	2.8875	2.4950
35	2.2277	2.2284	1.9252	2.0889	2.0897	1.8050
50	1.6503	1.6511	1.4252	1.5221	1.5529	1.3399
70	1.1470	1.1485	0.9895	1.0814	1.0823	0.9319
95	0.8380	0.8391	0.7206	0.7910	0.7921	0.6794
120	0.6703	0.6714	0.5744	0.6352	0.6363	0.5430
150	0.5555	0.5509	0.4740	0.5288	0.5303	0.4503
185	0.4537	0.4550	0.3845	0.4334	0.4348	0.3063
240	0.3624	0.3639	0.3035	0.3509	0.3524	0.2928
300	0.3065	0.3080	0.2533	0.2997	0.3013	0.2409
400	0.2608	0.2631	0.2117	0.2586	0.2608	0.2088
500	0.2277	0.2300	0.1809	0.2301	0.2325	0.1827
630	0.2046	0.2069	0.1591	0.2102	0.2130	0.1630



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