

6 Aerial Bundle Conductors

Aerial Bundle Conductors (ABC) are self supporting insulated cables used for low voltage electricity distribution.

ABCs comprise of three phase conductors (Aluminium) and a neutral conductor (Alloy Aluminium) bundled together with or without street lamp wires. The neutral conductor also acts as a messenger or a load bearer.

Aerial Bundled Conductors are manufactured to National French Standard NFC 33-209.

Phase Conductor

Multistrand round compacted hard drawn Aluminium conductor is insulated with black weather resistant cross-linked thermosetting polyethylene (XLPE).

Neutral Messenger

Multistrand round Aluminium Alloy conductor is insulated with black weather resistant cross-linked thermosetting polyethylene (XLPE).

Street Lamp Wires

Multistrand round compacted hard drawn Aluminium conductor is insulated with black weather resistant cross-linked thermosetting polyethylene (XLPE) conforming to NFC 33-209.



6. ABC

6

Aerial Bundle Conductors - (Continued)

(3 x 25mm² Al/XLPE + N 54.6mm² + K x 16mm² ABC)

Item Description		mm ²	3x25+ 54.6	3x25+54.6 +1x16	3x25+54.6 +2x16	3x25+54.6 +3x16
Nominal Cross Sectional Area	Phase Conductor	mm ²	25	25	25	25
	Neutral Messenger	mm ²	54.6	54.6	54.6	54.6
	Street Lighting Conductor	mm ²	-	16	16	16
Number of Strands	Phase Conductor	Nos.	7	7	7	7
	Neutral Messenger	Nos.	7	7	7	7
	Street Lighting Conductor	Nos.	-	7	7	7
Maximum Resistance of Conductor at 20 °C	Phase Conductor	Ω/km	1.2	1.2	1.2	1.2
	Neutral Messenger	Ω/km	0.63	0.63	0.63	0.63
	Street Lighting Conductor	Ω/km	-	1.91	1.91	1.91
Minimum Breaking Strength	Phase Conductor	daN	300	300	300	300
	Neutral Messenger	daN	1660	1660	1660	1660
	Street Lighting Conductor	daN	-	190	190	190
Nominal Diameter of Strands	Neutral Messenger	mm	3.15	3.15	3.15	3.15
Nominal Diameter of Bare Conductors	Phase Conductor	mm	6.0	6.0	6.0	6.0
	Neutral Messenger	mm	9.5	9.5	9.5	9.5
	Street Lighting Conductor	mm	-	4.8	4.8	4.8
Lay Direction	Neutral Messenger		Left	Left	Left	Left
Lay Pitch	Neutral Messenger	mm	190	190	190	190
Nominal Thickness of Insulating Sheath	Phase Conductor	mm	1.4	1.4	1.4	1.4
	Neutral Messenger	mm	1.6	1.6	1.6	1.6
	Street Lighting Conductor	mm	-	1.2	1.2	1.2
Nominal Insulated Core Diameter	Phase Conductors	mm	8.8	8.8	8.8	8.8
	Neutral Messenger	mm	12.7	12.7	12.7	12.7
	Street Lighting Conductor	mm	-	7.2	7.2	7.2
Current Carrying Capacity	Phase Conductors	A	112	112	112	112
	Street Lighting Conductor	A	-	83	83	83
Voltage Drop	Phase Conductor	V/A/km	2.2	2.2	2.2	2.2

Complete Cable

Approximate Overall Diameter		mm	30	30	30	30
Maximum Lay Pitch		cm	80	80	80	80
Lay Direction			Right	Right	Right	Right
Inductance		mH/km	0.28	0.28	0.28	0.28
Impedance		Ω/km	0.501	0.501	0.501	0.501
Maximum Short Circuit Rating	for 0.2 sec	kA	5.28	5.28	5.28	5.28
	for 1.0 sec	kA	2.36	2.36	2.36	2.36
	for 3.0 sec	kA	1.36	1.36	1.36	1.36
Minimum Bending Radius		mm	229	229	229	229
Approximate Cable Weight		kg/km	514.1	580.7	647.3	713.8
Nominal Drum Length		m	500	500	500	500
Size of the Drum			SIE 36	SIE 36	SIE 36	SIE 36



K Represents the number of cores for public lighting, it may be zero, 1, 2 or 3

6. ABC

6 Aerial Bundle Conductors - (Continued)

(3 x 35mm² Al/XLPE + N 54.6mm² + K x 16mm² ABC)

Item Description		mm ²	3x35 + 54.6	3x35+54.6 +1x16	3x35+54.6 +2x16	3x35+54.6 +3x16
Nominal Cross-Sectional Area	Phase Conductor	mm ²	35	35	35	35
	Neutral Messenger	mm ²	54.6	54.6	54.6	54.6
	Street Lighting Conductor	mm ²	-	16	16	16
Number of Strands	Phase Conductor	Nos.	7	7	7	7
	Neutral Messenger	Nos.	7	7	7	7
	Street Lighting Conductor	Nos.	-	7	7	7
Maximum Resistance of Conductor at 20 °C	Phase Conductor	Ω/km	0.868	0.868	0.868	0.868
	Neutral Messenger	Ω/km	0.63	0.63	0.63	0.63
	Street Lighting Conductor	Ω/km	-	1.91	1.91	1.91
Minimum Breaking Strength	Phase Conductor	daN	420	420	420	420
	Neutral Messenger	daN	1660	1660	1660	1660
	Street Lighting Conductor	daN	-	190	190	190
Nominal Diameter of Strands	Neutral Messenger	mm	3.15	3.15	3.15	3.15
Nominal Diameter of Bare Conductors	Phase Conductor	mm	7.0	7.0	7.0	7.0
	Neutral Messenger	mm	9.5	9.5	9.5	9.5
	Street Lighting Conductor	mm	-	4.8	4.8	4.8
Lay Direction	Neutral Messenger		Left	Left	Left	Left
Lay Pitch	Neutral Messenger	mm	190	190	190	190
Nominal Thickness of Insulating Sheath	Phase Conductors	mm	1.6	1.6	1.6	1.6
	Neutral Messenger	mm	1.6	1.6	1.6	1.6
	Street Lighting Conductor	mm	-	1.2	1.2	1.2
Nominal Insulated Core Diameter	Phase Conductor	mm	10.2	10.2	10.2	10.2
	Neutral Messenger	mm	12.7	12.7	12.7	12.7
	Street Lighting Conductor	mm	-	7.2	7.2	7.2
Current Carrying Capacity	Phase Conductor	A	138	138	138	138
	Street Lighting Conductor	A	-	83	83	83
Voltage Drop	Phase Conductor	V/A/km	1.65	1.65	1.65	1.65

Complete Cable

Approximate Overall Diameter		mm	33	33	33	33
Maximum Lay Pitch		cm	85	85	85	85
Lay Direction			Right	Right	Right	Right
Inductance		mH/km	0.28	0.28	0.28	0.28
Impedance		Ω/km	0.501	0.501	0.501	0.501
Maximum Short Circuit Rating	for 0.2 sec	kA	7.39	7.39	7.39	7.39
	for 1.0 sec	kA	3.31	3.31	3.31	3.31
	for 3.0 sec	kA	1.91	1.91	1.91	1.91
Minimum Bending Radius		mm	229	229	229	229
Approximate Cable Weight		kg/km	621.2	687.8	754.4	820.9
Nominal Drum Length		m	500	500	500	500
Size of the Drum			SIE 36	SIE 36	SIE 36	SIE 36



K Represents the number of cores for public lighting, it may be zero,1,2 or 3

6. ABC

6

Aerial Bundle Conductors - (Continued)

(3 x 50mm²AI/XLPE + N 54.6mm²+ K x 16mm² ABC)

Item Description		mm ²	3x50 + 54.6	3x50+54.6 +1x16	3x50+54.6 +2x16	3x50+54.6 +3x16
Nominal Cross-Sectional Area	Phase Conductor	mm ²	50	50	50	50
	Neutral Messenger	mm ²	54.6	54.6	54.6	54.6
	Street Lighting Conductor	mm ²	-	16	16	16
Number of Strands	Phase Conductor	Nos.	7	7	7	7
	Neutral Messenger	Nos.	7	7	7	7
	Street Lighting Conductor	Nos.	-	7	7	7
Maximum Resistance of Conductor at 20 °C	Phase Conductor	Ω/km	0.641	0.641	0.641	0.641
	Neutral Messenger	Ω/km	0.63	0.63	0.63	0.63
	Street Lighting Conductor	Ω/km	-	1.91	1.91	1.91
Minimum Breaking Strength	Phase Conductor	daN	600	600	600	600
	Neutral Messenger	daN	1660	1660	1660	1660
	Street Lighting Conductor	daN	-	190	190	190
Nominal Diameter of Strands	Neutral Messenger	mm	3.15	3.15	3.15	3.15
Nominal Diameter of Bare Conductors	Phase Conductor	mm	8.1	8.1	8.1	8.1
	Neutral Messenger	mm	9.5	9.5	9.5	9.5
	Street Lighting Conductor	mm	-	4.8	4.8	4.8
Lay Direction	Neutral Messenger		Left	Left	Left	Left
Lay Pitch	Neutral Messenger	mm	190	190	190	190
Nominal Thickness of Insulating Sheath	Phase Conductor	mm	1.6	1.6	1.6	1.6
	Neutral Messenger	mm	1.6	1.6	1.6	1.6
	Street Lighting Conductor	mm	-	1.2	1.2	1.2
Nominal Insulated Core Diameter	Phase Conductor	mm	11.3	11.3	11.3	11.3
	Neutral Messenger	mm	12.7	12.7	12.7	12.7
	Street Lighting Conductor	mm	-	7.2	7.2	7.2
Current Carrying Capacity	Phase Conductor	A	168	168	168	168
	Street Lighting Conductor	A	-	83	83	83
Voltage Drop	Phase Conductor	V/A/km	1.27	1.27	1.27	1.27

Complete Cable

Approximate Overall Diameter		mm	36	36	36	36
Maximum Lay Pitch		cm	90	90	90	90
Lay Direction			Right	Right	Right	Right
Inductance		mH/km	0.27	0.27	0.27	0.27
Impedance		Ω/km	0.5	0.5	0.5	0.5
Maximum Short Circuit Rating	for 0.2 sec	kA	10.56	10.56	10.56	10.56
	for 1.0 sec	kA	4.72	4.72	4.72	4.72
	for 3.0 sec	kA	2.73	2.73	2.73	2.73
Minimum Bending Radius		mm	229	229	229	229
Approximate Cable Weight		kg/km	735.0	801.6	868.2	934.8
Nominal Drum Length		m	500	500	500	500
Size of the Drum			SIE 19	SIE 19	SIE 19	SIE 19



K Represents the number of cores for public lighting, it may be zero,1,2 or 3

6. ABC

6 Aerial Bundle Conductors - (Continued) (3 x 70mm² Al/XLPE + N 54.6mm² + K x 16mm² ABC)

Item Description		mm ²	3x70 + 54.6	3x70+54.6 +1x16	3x70+54.6 +2x16	3x70+54.6 +3x16
Nominal Cross-Sectional Area	Phase Conductor	mm ²	70	70	70	70
	Neutral Messenger	mm ²	54.6	54.6	54.6	54.6
	Street Lighting Conductor	mm ²	-	16	16	16
Number of Strands	Phase Conductor	Nos.	#12	#12	#12	#12
	Neutral Messenger	Nos.	7	7	7	7
	Street Lighting Conductor	Nos.	-	7	7	7
Maximum Resistance of Conductor at 20° C	Phase Conductor	Ω/km	0.443	0.443	0.443	0.443
	Neutral Messenger	Ω/km	0.63	0.63	0.63	0.63
	Street Lighting Conductor	Ω/km	-	1.91	1.91	1.91
Minimum Breaking Strength	Phase Conductor	daN	840	840	840	840
	Neutral Messenger	daN	1660	1660	1660	1660
	Street Lighting Conductor	daN	-	190	190	190
Nominal Diameter of Strands	Neutral Messenger	mm	3.15	3.15	3.15	3.15
Nominal Diameter of Bare Conductors	Phase Conductor	mm	9.9	9.9	9.9	9.9
	Neutral Messenger	mm	9.5	9.5	9.5	9.5
	Street Lighting Conductor	mm	-	4.8	4.8	4.8
Lay Direction	Neutral Messenger		Left	Left	Left	Left
Lay Pitch	Neutral Messenger	mm	190	190	190	190
Nominal Thickness of Insulating Sheath	Phase Conductor	mm	1.8	1.8	1.8	1.8
	Neutral Messenger	mm	1.6	1.6	1.6	1.6
	Street Lighting Conductor	mm	-	1.2	1.2	1.2
Nominal Insulated Core Diameter	Phase Conductors	mm	13.5	13.5	13.5	13.5
	Neutral Messenger	mm	12.7	12.7	12.7	12.7
	Street Lighting Conductor	mm	-	7.2	7.2	7.2
Current Carrying Capacity	Phase Conductors	A	213	213	213	213
	Street Lighting Conductor	A	-	83	83	83
Voltage Drop	Phase Conductor	V/A/km	0.87	0.87	0.87	0.87

Complete Cable						
Approximate Overall Diameter		mm	37.5	37.5	37.5	37.5
Maximum Lay Pitch		cm	100	100	100	100
Lay Direction			Right	Right	Right	Right
Inductance		mH/km	0.26	0.26	0.26	0.26
Impedance		Ω/km	0.35	0.35	0.35	0.35
Maximum Short Circuit Rating	for 0.2 sec	kA	14.79	14.79	14.79	14.79
	for 1.0 sec	kA	6.61	6.61	6.61	6.61
	for 3.0 sec	kA	3.82	3.82	3.82	3.82
Minimum Bending Radius		mm	243	243	243	243
Approximate Cable Weight		kg/km	975.8	1042.3	1108.9	1175.5
Nominal Drum Length		m	500	500	500	500
Size of the Drum			SIE 38	SIE 38	SIE 38	SIE 38



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- can be 19 strands based on customer request.

6. ABC

6

Aerial Bundle Conductors - (Continued)

(3 x 70mm² Al/XLPE + N 54.6mm² + K x 25mm² ABC)

Item Description		mm ²	3x70+54.6 +1x25	3x70+54.6 +2x25	3x70+54.6 +3x25
Nominal Cross-Sectional Area	Phase Conductor	mm ²	70	70	70
	Neutral Messenger	mm ²	54.6	54.6	54.6
	Street Lighting Conductor	mm ²	25	25	25
Number of Strands	Phase Conductor	Nos.	#12	#12	#12
	Neutral Messenger	Nos.	7	7	7
	Street Lighting Conductor	Nos.	7	7	7
Maximum Resistance of Conductor at 20 °C	Phase Conductor	Ω/km	0.443	0.443	0.443
	Neutral Messenger	Ω/km	0.63	0.63	0.63
	Street Lighting Conductor	Ω/km	1.20	1.20	1.20
Minimum Breaking Strength	Phase Conductor	daN	840	840	840
	Neutral Messenger	daN	1660	1660	1660
	Street Lighting Conductor	daN	300	300	300
Nominal Diameter of Strands	Neutral Messenger	mm	3.15	3.15	3.15
Nominal Diameter of Bare Conductors	Phase Conductor	mm	9.9	9.9	9.9
	Neutral Messenger	mm	9.5	9.5	9.5
	Street Lighting Conductor	mm	6.0	6.0	6.0
Lay Direction	Neutral Messenger		Left	Left	Left
Lay Pitch	Neutral Messenger	mm	190	190	190
Nominal Thickness of Insulating Sheath	Phase Conductor	mm	1.8	1.8	1.8
	Neutral Messenger	mm	1.6	1.6	1.6
	Street Lighting Conductor	mm	1.4	1.4	1.4
Nominal Insulated Core Diameter	Phase Conductor	mm	13.5	13.5	13.5
	Neutral Messenger	mm	12.7	12.7	12.7
	Street Lighting Conductor	mm	8.8	8.8	8.8
Current Carrying Capacity	Phase Conductors	A	213	213	213
	Street Lighting Conductor	A	111	111	111
Voltage Drop	Phase Conductor	V/A/km	0.87	0.87	0.87

Complete Cable

Approximate Overall Diameter		mm	40	40	40
Maximum Lay Pitch		cm	100	100	100
Lay Direction			Right	Right	Right
Inductance		mH/km	0.26	0.26	0.26
Impedance		Ω/km	0.35	0.35	0.35
Maximum Short Circuit Rating	for 0.2 sec	kA	14.79	14.79	14.79
	for 1.0 sec	kA	6.61	6.61	6.61
	for 3.0 sec	kA	3.82	3.82	3.82
Minimum Bending Radius		mm	243	243	243
Approximate Cable Weight		kg/km	1077.3	1178.9	1280.4
Nominal Drum Length		m	500	500	500
Size of the Drum			SIE 39	SIE 39	SIE 39



K Represents the number of cores for public lighting, it may be zero, 1, 2 or 3
- can be 19 strands based on customer request.

6. ABC

6 Aerial Bundle Conductors - (Continued)

(3 x 70 mm² Al/XLPE + N 70mm² + K x 16mm² ABC)

Item Description		mm ²	3x70 + N70	3x70+N70 +1x16	3x70+N70 +2x16	3x70+N70 +3x16
Nominal Cross-Sectional Area	Phase Conductor	mm ²	70	70	70	70
	Neutral Messenger	mm ²	70	70	70	70
	Street Lighting Conductor	mm ²	-	16	16	16
Number of Strands	Phase Conductor	Nos.	#12	#12	#12	#12
	Neutral Messenger	Nos.	7	7	7	7
	Street Lighting Conductor	Nos.	-	7	7	7
Maximum Resistance of Conductor at 20 °C	Phase Conductor	Ω/km	0.443	0.443	0.443	0.443
	Neutral Messenger	Ω/km	0.5	0.5	0.5	0.5
	Street Lighting Conductor	Ω/km	-	1.91	1.91	1.91
Minimum Breaking Strength	Phase Conductor	daN	840	840	840	840
	Neutral Messenger	daN	2050	2050	2050	2050
	Street Lighting Conductor	daN	-	190	190	190
Nominal Diameter of Strands	Neutral Messenger	mm	3.50	3.50	3.50	3.50
Nominal Diameter of Bare Conductors	Phase Conductor	mm	9.9	9.9	9.9	9.9
	Neutral Messenger	mm	10.5	10.5	10.5	10.5
	Street Lighting Conductor	mm	-	4.8	4.8	4.8
Lay Direction	Neutral Messenger		Left	Left	Left	Left
Lay Pitch	Neutral Messenger	mm	210	210	210	210
Nominal Thickness of Insulating Sheath	Phase Conductor	mm	1.8	1.8	1.8	1.8
	Neutral Messenger	mm	1.5	1.5	1.5	1.5
	Street Lighting Conductor	mm	-	1.2	1.2	1.2
Nominal Insulated Core Diameter	Phase Conductor	mm	13.5	13.5	13.5	13.5
	Neutral Messenger	mm	13.5	13.5	13.5	13.5
	Street Lighting Conductor	mm	-	7.2	7.2	7.2
Current Carrying Capacity	Phase Conductor	A	213	213	213	213
	Street Lighting Conductor	A	-	83	83	83
Voltage Drop	Phase Conductor	V/A/km	0.87	0.87	0.87	0.87

Complete Cable

Approximate Overall Diameter		mm	41	41	41	41
Maximum Lay Pitch		cm	100	100	100	100
Lay Direction			Right	Right	Right	Right
Inductance		mH/km	0.26	0.26	0.26	0.26
Impedance		Ω/km	0.35	0.35	0.35	0.35
Maximum Short Circuit Rating	for 0.2 sec	kA	14.79	14.79	14.79	14.79
	for 1.0 sec	kA	6.61	6.61	6.61	6.61
	for 3.0 sec	kA	3.82	3.82	3.82	3.82
Minimum Bending Radius		mm	243	243	243	243
Approximate Cable Weight		kg/km	1013.3	1079.9	1146.4	1213.0
Nominal Drum Length		m	500	500	500	500
Size of the Drum			SIE 39	SIE 39	SIE 39	SIE 39



K Represents the number of cores for public lighting, it may be zero, 1, 2 or 3
- can be 19 strands based on customer request.

6. ABC

6

Aerial Bundle Conductors - (Continued)

(3 x 95mm² Al/XLPE + N 70mm² + K x 16mm² ABC)

Item Description		mm ²	3x95 + N70	3x95+N70 +1x16	3x95+N70 +2x16	3x95+N70 +3x16
Nominal Cross-Sectional Area	Phase Conductor	mm ²	95	95	95	95
	Neutral Messenger	mm ²	70	70	70	70
	Street Lighting Conductor	mm ²	-	16	16	16
Number of Strands	Phase Conductor	Nos.	19	19	19	19
	Neutral Messenger	Nos.	7	7	7	7
	Street Lighting Conductor	Nos.	-	7	7	7
Maximum Resistance of Conductor at 20 °C	Phase Conductor	Ω/km	0.320	0.320	0.320	0.320
	Neutral Messenger	Ω/km	0.5	0.5	0.5	0.5
	Street Lighting Conductor	Ω/km	-	1.91	1.91	1.91
Minimum Breaking Strength	Phase Conductor	daN	1140	1140	1140	1140
	Neutral Messenger	daN	2050	2050	2050	2050
	Street Lighting Conductor	daN	-	190	190	190
Nominal Diameter of Strands	Neutral Messenger	mm	3.50	3.50	3.50	3.50
Nominal Diameter of Bare Conductors	Phase Conductor	mm	11.2	11.2	11.2	11.2
	Neutral Messenger	mm	10.5	10.5	10.5	10.5
	Street Lighting Conductor	mm	-	4.8	4.8	4.8
Lay Direction	Neutral Messenger		Left	Left	Left	Left
Lay Pitch	Neutral Messenger	mm	210	210	210	210
Nominal Thickness of Insulating Sheath	Phase Conductor	mm	1.8	1.8	1.8	1.8
	Neutral Messenger	mm	1.5	1.5	1.5	1.5
	Street Lighting Conductor	mm	-	1.2	1.2	1.2
Nominal Insulated Core Diameter	Phase Conductor	mm	14.8	14.8	14.8	14.8
	Neutral Messenger	mm	13.5	13.5	13.5	13.5
	Street Lighting Conductor	mm	-	7.2	7.2	7.2
Current Carrying Capacity	Phase Conductor	A	258	258	258	258
	Street Lighting Conductor	A	-	83	83	83
Voltage Drop	Phase Conductor	V/A/km	0.67	0.67	0.67	0.67

Complete Cable

Approximate Overall Diameter		mm	44	44	44	44
Maximum Lay Pitch		cm	110	110	110	110
Lay Direction			Right	Right	Right	Right
Inductance		mH/km	0.25	0.25	0.25	0.25
Impedance		Ω/km	0.258	0.258	0.258	0.258
Maximum Short Circuit Rating	for 0.2 sec	kA	20.07	20.07	20.07	20.07
	for 1.0 sec	kA	8.98	8.98	8.98	8.98
	for 3.0 sec	kA	5.18	5.18	5.18	5.18
Minimum Bending Radius		mm	266	266	266	266
Approximate Cable Weight		kg/km	1196.2	1262.8	1329.3	1395.9
Nominal Drum Length		m	500	500	500	500
Size of the Drum			SIE 40	SIE 40	SIE 40	SIE 40



K Represents the number of cores for public lighting, it may be zero, 1, 2 or 3

6. ABC

6 Aerial Bundle Conductors - (Continued)

(3 x 120mm² Al/XLPE + N 70mm² + K x 16mm² ABC)

Item Description		mm ²	3x120 + N70	3x120+N70 +1x16	3x120+N70 +2x16	3x120+N70 +3x16
Nominal Cross-Sectional Area	Phase Conductor	mm ²	120	120	120	120
	Neutral Messenger	mm ²	70	70	70	70
	Street Lighting Conductor	mm ²	-	16	16	16
Number of Strands	Phase Conductor	Nos.	19	19	19	19
	Neutral Messenger	Nos.	7	7	7	7
	Street Lighting Conductor	Nos.	-	7	7	7
Maximum Resistance of Conductor at 20 °C	Phase Conductor	Ω/km	0.253	0.253	0.253	0.253
	Neutral Messenger	Ω/km	0.5	0.5	0.5	0.5
	Street Lighting Conductor	Ω/km	-	1.91	1.91	1.91
Minimum Breaking Strength	Phase Conductor	daN	1440	1440	1440	1440
	Neutral Messenger	daN	2050	2050	2050	2050
	Street Lighting Conductor	daN	-	190	190	190
Nominal Diameter of Strands	Neutral Messenger	mm	3.50	3.50	3.50	3.50
Nominal Diameter of Bare Conductors	Phase Conductor	mm	12.2	12.2	12.2	12.2
	Neutral Messenger	mm	10.5	10.5	10.5	10.5
	Street Lighting Conductor	mm	-	4.8	4.8	4.8
Lay Direction	Neutral Messenger		Left	Left	Left	Left
Lay Pitch	Neutral Messenger	mm	210	210	210	210
Nominal Thickness of Insulating Sheath	Phase Conductor	mm	1.8	1.8	1.8	1.8
	Neutral Messenger	mm	1.5	1.5	1.5	1.5
	Street Lighting Conductors	mm	-	1.2	1.2	1.2
Nominal Insulated Core Diameter	Phase Conductors	mm	15.8	15.8	15.8	15.8
	Neutral Messenger	mm	13.5	13.5	13.5	13.5
	Street Lighting Conductor	mm	-	7.2	7.2	7.2
Current Carrying Capacity	Phase Conductor	A	300	300	300	300
	Street Lighting Conductor	A	-	83	83	83
Voltage Drop	Phase Conductor	V/A/km	0.55	0.55	0.55	0.55

Complete Cable

Approximate Overall Diameter		mm	46	46	46	46
Maximum Lay Pitch		cm	120	120	120	120
Lay Direction			Right	Right	Right	Right
Inductance		mH/km	0.25	0.25	0.25	0.25
Impedance		Ω/km	0.258	0.258	0.258	0.258
Maximum Short Circuit Rating	for 0.2 sec	kA	25.35	25.35	25.35	25.35
	for 1.0 sec	kA	11.34	11.34	11.34	11.34
	for 3.0 sec	kA	6.55	6.55	6.55	6.55
Minimum Bending Radius		mm	284	284	284	284
Approximate Cable Weight		kg/km	1350.5	1417.1	1483.7	1550.2
Nominal Drum Length		m	500	500	500	500
Size of the Drum			SIE 38	SIE 38	SIE 38	SIE 38



K Represents the number of cores for public lighting, it may be zero, 1, 2 or 3

6. ABC

6 Aerial Bundle Conductors - (Continued)

(3 x 150mm² Al/XLPE + N 70mm² + K x 16mm² ABC)

Item Description		mm ²	3x150 + N70	3x150+N70 +1x16	3x150+N70 +2x16	3x150+N70 +3x16
Nominal Cross-Sectional Area	Phase Conductor	mm ²	150	150	150	150
	Neutral Messenger	mm ²	70	70	70	70
	Street Lighting Conductor	mm ²	-	16	16	16
Number of Strands	Phase Conductor	Nos.	19	19	19	19
	Neutral Messenger	Nos.	7	7	7	7
	Street Lighting Conductor	Nos.	-	7	7	7
Maximum Resistance of Conductor at 20 °C	Phase Conductor	Ω/km	0.206	0.206	0.206	0.206
	Neutral Messenger	Ω/km	0.5	0.5	0.5	0.5
	Street Lighting Conductor	Ω/km	-	1.91	1.91	1.91
Minimum Breaking Strength	Phase Conductor	daN	1800	1800	1800	1800
	Neutral Messenger	daN	2050	2050	2050	2050
	Street Lighting Conductor	daN	-	190	190	190
Nominal Diameter of Strands	Neutral Messenger	mm	3.50	3.50	3.50	3.50
Nominal Diameter of Bare Conductors	Phase Conductor	mm	14.1	14.1	14.1	14.1
	Neutral Messenger	mm	10.5	10.5	10.5	10.5
	Street Lighting Conductor	mm	-	4.8	4.8	4.8
Lay Direction	Neutral Messenger		Left	Left	Left	Left
Lay Pitch	Neutral Messenger	mm	210	210	210	210
Nominal Thickness of Insulating Sheath	Phase Conductor	mm	1.7	1.7	1.7	1.7
	Neutral Messenger	mm	1.5	1.5	1.5	1.5
	Street Lighting Conductor	mm	-	1.2	1.2	1.2
Nominal Insulated Core Diameter	Phase Conductor	mm	17.5	17.5	17.5	17.5
	Neutral Messenger	mm	13.5	13.5	13.5	13.5
	Street Lighting Conductor	mm	-	7.2	7.2	7.2
Current Carrying Capacity	Phase Conductor	A	344	344	344	344
	Street Lighting Conductor	A	-	83	83	83
Voltage Drop	Phase Conductor	V/A/km	0.46	0.46	0.46	0.46

Complete Cable

Approximate Overall Diameter		mm	48	48	48	48
Minimum/Maximum Lay Pitch		cm	115/130	115/130	115/130	115/130
Lay Direction			Right	Right	Right	Right
Inductance		mH/km	0.24	0.24	0.24	0.24
Impedance		Ω/km	0.257	0.257	0.257	0.257
Maximum Short Circuit Rating	for 0.2 sec	kA	31.69	31.69	31.69	31.69
	for 1.0 sec	kA	14.17	14.17	14.17	14.17
	for 3.0 sec	kA	8.18	8.18	8.18	8.18
Minimum Bending Radius		mm	315	315	315	315
Approximate Cable Weight		kg/km	1660.9	1727.5	1794.0	1860.6
Nominal Drum Length		m	500	500	500	500
Size of the Drum			SIE 41	SIE 41	SIE 41	SIE 41



K Represents the number of cores for public lighting, it may be zero,1,2 or 3

6. ABC

6 Aerial Bundle Conductors - (Continued)

(3 x 120mm² Al/XLPE + N 95mm² + K x 16mm² ABC)

Item Description		mm ²	3x120 + N95	3x120+N95 +1x16	3x120+N95 +2x16	3x120+N95 +3x16
Nominal Cross-Sectional Area	Phase Conductor	mm ²	120	120	120	120
	Neutral Messenger	mm ²	95	95	95	95
	Street Lighting Conductor	mm ²	-	16	16	16
Number of Strands	Phase Conductor	Nos.	19	19	19	19
	Neutral Messenger	Nos.	19	19	19	19
	Street Lighting Conductor	Nos.	-	7	7	7
Maximum Resistance of Conductor at 20 °C	Phase Conductor	Ω/km	0.253	0.253	0.253	0.253
	Neutral Messenger	Ω/km	0.343	0.343	0.343	0.343
	Street Lighting Conductor	Ω/km	-	1.91	1.91	1.91
Minimum Breaking Strength	Phase Conductor	daN	1440	1440	1440	1440
	Neutral Messenger	daN	2750	2750	2750	2750
	Street Lighting Conductor	daN	-	190	190	190
Nominal Diameter of Strands	Neutral Messenger	mm	2.50	2.50	2.50	2.50
Nominal Diameter of Bare Conductors	Phase Conductor	mm	12.2	12.2	12.2	12.2
	Neutral Messenger	mm	12.5	12.5	12.5	12.5
	Street Lighting Conductor	mm	-	4.8	4.8	4.8
Lay Direction	Neutral Messenger		Left	Left	Left	Left
Lay Pitch	Neutral Messenger	mm	250	250	250	250
Nominal Thickness of Insulating Sheath	Phase Conductor	mm	1.8	1.8	1.8	1.8
	Neutral Messenger	mm	1.6	1.6	1.6	1.6
	Street Lighting Conductor	mm	-	1.2	1.2	1.2
Nominal Insulated Core Diameter	Phase Conductor	mm	15.8	15.8	15.8	15.8
	Neutral Messenger	mm	15.7	15.7	15.7	15.7
	Street Lighting Conductor	mm	-	7.2	7.2	7.2
Current Carrying Capacity	Phase Conductor	A	300	300	300	300
	Street Lighting Conductor	A	-	83	83	83
Voltage Drop	Phase Conductor	V/A/km	0.55	0.55	0.55	0.55

Complete Cable						
Approximate Overall Diameter		mm	47	47	47	47
Maximum Lay Pitch		cm	120	120	120	120
Lay Direction			Right	Right	Right	Right
Inductance		mH/km	0.25	0.25	0.25	0.25
Impedance		Ω/km	0.258	0.258	0.258	0.258
Maximum Short Circuit Rating	for 0.2 sec	kA	25.35	25.35	25.35	25.35
	for 1.0 sec	kA	11.34	11.34	11.34	11.34
	for 3.0 sec	kA	6.55	6.55	6.55	6.55
Minimum Bending Radius		mm	284	284	284	284
Approximate Cable Weight		kg/mm	1413.7	1480.3	1546.9	1613.4
Nominal Drum Length		m	500	500	500	500
Size of the Drum			SIE 41	SIE 41	SIE 41	SIE 41



K Represents the number of cores for public lighting, it may be zero 1,2 or 3

6. ABC

6

Aerial Bundle Conductors - (Continued)

(3 x 150mm² Al/XLPE + N 95mm² + K x 16mm² ABC)

Item Description		mm ²	3x150 +N95	3x150+N95 +1x16	3x150+N95 +2x16	3x150+N95 +3x16
Nominal Cross-Sectional Area	Phase Conductor	mm ²	150	150	150	150
	Neutral Messenger	mm ²	95	95	95	95
	Street Lighting Conductor	mm ²	-	16	16	16
Number of Strands	Phase Conductor	Nos.	19	19	19	19
	Neutral Messenger	Nos.	19	19	19	19
	Street Lighting Conductor	Nos.	-	7	7	7
Maximum Resistance of Conductor at 20 °C	Phase Conductor	Ω/km	0.206	0.206	0.206	0.206
	Neutral Messenger	Ω/km	0.343	0.343	0.343	0.343
	Street Lighting Conductor	Ω/km	-	1.91	1.91	1.91
Minimum Breaking Strength	Phase Conductor	daN	1800	1800	1800	1800
	Neutral Messenger	daN	2750	2750	2750	2750
	Street Lighting Conductor	daN	-	190	190	190
Nominal Diameter of Strands	Neutral Messenger	mm	2.50	2.50	2.50	2.50
Nominal Diameter of Bare Conductors	Phase Conductor	mm	14.1	14.1	14.1	14.1
	Neutral Messenger	mm	12.5	12.5	12.5	12.5
	Street Lighting Conductor	mm	-	4.8	4.8	4.8
Lay Direction	Neutral Messenger		Left	Left	Left	Left
Lay Pitch	Neutral Messenger	mm	250	250	250	250
Nominal Thickness of Insulating Sheath	Phase Conductor	mm	1.7	1.7	1.7	1.7
	Neutral Messenger	mm	1.6	1.6	1.6	1.6
	Street Lighting Conductor	mm	-	1.2	1.2	1.2
Nominal Insulated Core Diameter	Phase Conductor	mm	17.5	17.5	17.5	17.5
	Neutral Messenger	mm	15.7	15.7	15.7	15.7
	Street Lighting Conductor	mm	-	7.2	7.2	7.2
Current Carrying Capacity	Phase Conductor	A	344	344	344	344
	Street Lighting Conductor	A	-	83	83	83
Voltage Drop	Phase Conductor	V/A/km	0.46	0.46	0.46	0.46

Complete Cable

Approximate Overall Diameter		mm	49	49	49	49
Minimum/Maximum Lay Pitch		cm	115/130	115/130	115/130	115/130
Lay Direction			Right	Right	Right	Right
Inductance		mH/km	0.24	0.24	0.24	0.24
Impedance		Ω/km	0.257	0.257	0.257	0.257
Maximum Short Circuit Rating	for 0.2 sec	kA	31.69	31.69	31.69	31.69
	for 1.0 sec	kA	14.17	14.17	14.17	14.17
	for 3.0 sec	kA	8.18	8.18	8.18	8.18
Minimum Bending Radius		mm	315	315	315	315
Approximate Cable Weight		kg/km	1724.1	1790.7	1857.2	1923.3
Nominal Drum Length		m	500	500	500	500
Size of the Drum			SIE 41	SIE 41	SIE 41	SIE 41



K Represents the number of cores for public lighting, it may be zero,1,2 or 3