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EEMUA 133 Lead covered armoured Power Cables to BS5467, 600/1000V

Applications

These power and control cables are used for electricity supply in low voltage installation system. They are well adapted to underground use in industrial applications, in moist areas, where hydrocarbon and mechanical protections are needed and are protected against solvent penetration and corrosive attacks. The lead cover brings an enhanced resistance to aromatic hydrocarbons.

Construction

Conductor	Stranded copper conductor, Class 2 to BS 6460, IEC 60228.
Insulation	XLPE (Cross-Linked Polyethylene) Type GP 8 or ethylene propylene rubber (GP 6)
Colour Code	1 Core : Brown 2 Cores: Brown or Blue 3 Cores: Brown, Black, Grey 4 Cores: Blue, Brown, Black, Grey 5 Cores: Green/Yellow, Blue, Brown, Black, Grey Above 5 Cores: White Cores with black numbers
Bedding	PVC (Polyvinyl Chloride)
Protection	LC (Lead alloy 'E') sheathed
Armour	Single Core: AWA (Aluminum Wire Armour) Multi Core: SWA (Steel Wire Armour)

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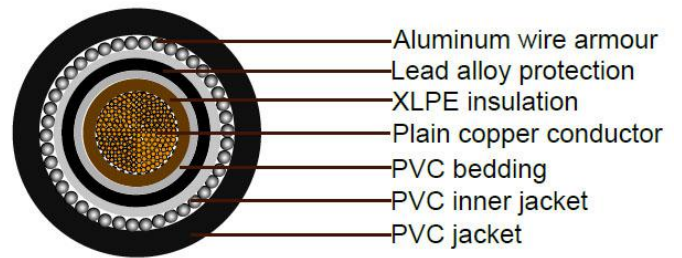
Outer Sheath PVC(Polyvinyl Chloride)

Technical Information

Voltage rating	600/1000V
Temperature rating	0°C to +90°C
Bending radius	12 x overall diameter
Flame retardant	IEC60332 part 1, BS4066 part 1

Cable Parameter

Single-core 600/1000 V cables with lead sheath



Nominal Cross-sectional Area	Strand Type	Nominal Insulation thickness	Nominal Lead sheath thickness	Nominal Inner Sheath thickness	Nominal Alum wire Armor dia.	Nominal Outer Sheath thickness	Approx. Overall Diameter	Approx Weight
mm ²	No./mm	mm	mm	mm	mm	mm	mm	kg/km
1x50	19/1.78	1	1.2	0.8	1.37	1.5	20	1285
1x70	19/2.14	1.1	1.2	0.8	1.37	1.5	22	1605
1x95	19/2.52	1.1	1.2	0.8	1.37	1.6	24	1965
1x120	37/2.03	1.2	1.3	0.8	1.37	1.6	25.5	2365
1x150	37/2.25	1.4	1.3	1	1.37	1.7	28	2800

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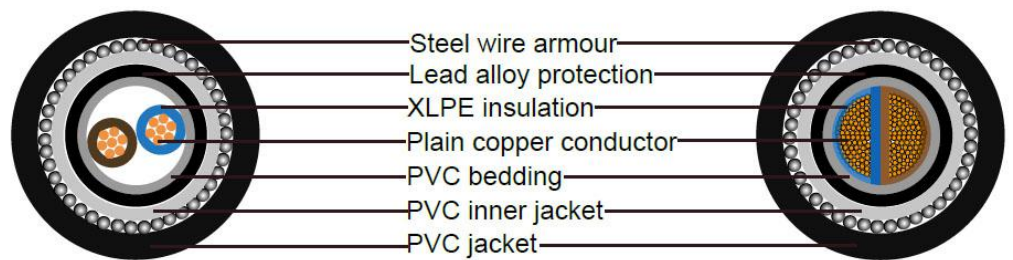
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1x185	37/2.52	1.6	1.4	1	1.72	1.8	31	3490
1x240	61/2.25	1.7	1.5	1	1.72	1.8	34	4300
1x300	61/2.52	1.8	1.6	1	1.72	1.9	37	5203
1x400	61/2.85	2	1.7	1.2	2.14	2	42	6615

Two-core 600/1000 V cables with lead sheath



Nominal Cross-sectional Area	Strand Type	Nominal Insulation thickness	Nominal Lead sheath thickness	Nominal Inner Sheath thickness	Nominal Steel Wire Armor dia.	Nominal Outer Sheath thickness	Approx. Overall Diameter	Approx Weight
mm ²	No./m m	mm	mm	mm	mm	mm	mm	kg/km
2x1.5	7/0.53	0.6	1.2	0.8	0.9	1.3	16.5	780
2x2.5	7/0.67	0.7	1.2	0.8	0.9	1.4	17.2	985
2x4	7/0.85	0.7	1.2	0.8	0.9	1.4	18.4	1100
2x6	7/1.04	0.7	1.2	0.8	0.9	1.4	19.6	1240
2x10	7/1.35	0.7	1.2	0.8	0.9	1.5	20.8	1430
2x16	7/1.70	0.7	1.2	0.8	1.25	1.5	21.8	1700
2x25	7/2.14	0.9	1.2	0.8	1.25	1.6	25.5	2060
2x35*	7/2.52	0.9	1.3	1	1.6	1.7	29.4	2670
2x50*	19/1.78	1.0	1.2	1	1.6	1.8	27.2	2640
2x70*	19/2.14	1.1	1.3	1	1.6	1.9	30.5	3400

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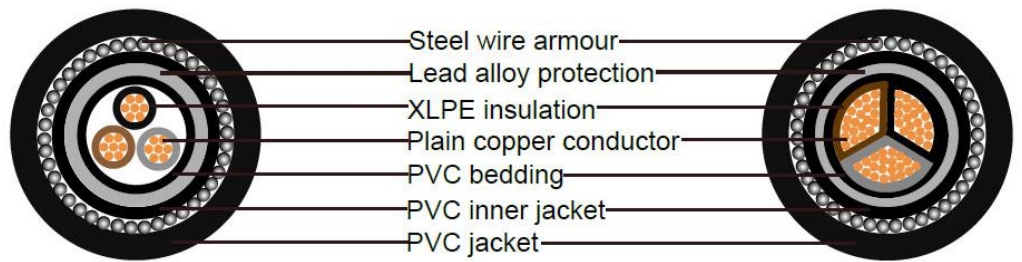
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2x95*	19/2.52	1.1	1.4	1.2	2.0	2.0	34.5	4530
2x120*	37/2.03	1.2	1.4	1.2	2.0	2.1	37.8	5170
2x150*	37/2.25	1.4	1.5	1.2	2.0	2.2	41.1	6120
2x185*	37/2.52	1.6	1.6	1.4	2.5	2.4	46.3	7710
2x240*	61/2.25	1.7	1.8	1.4	2.5	2.5	51.7	9650
2x300*	61/2.52	1.8	1.9	1.6	2.5	2.6	56.3	11510

* D-shaped stranded conductor

Three-core 600/1000 V cables with lead sheath



Nominal Cross-sectional Area	Strand Type	Nominal Insulation thickness	Nominal Lead sheath thickness	Nominal Inner Sheath thickness	Nominal Steel Wire Armor dia.	Nominal Outer Sheath thickness	Approx. Overall Diameter	Approx Weight
mm ²	No./mm	mm	mm	mm	mm	mm	mm	kg/km
3x1.5	7/0.53	0.7	1.2	0.8	0.9	1.3	17	945
3x2.5	7/0.67	0.7	1.2	0.8	1.25	1.4	19	1160
3x4	7/0.85	0.7	1.2	0.8	1.25	1.4	20.5	1325
3x6	7/1.04	0.7	1.2	0.8	1.25	1.4	21.5	1490
3x10	7/1.35	0.7	1.2	0.8	1.25	1.5	23	1750
3x16	7/1.70	0.7	1.2	0.8	1.6	1.6	26.5	2150
3x25	7/2.14	0.9	1.3	1	1.6	1.7	31	3175

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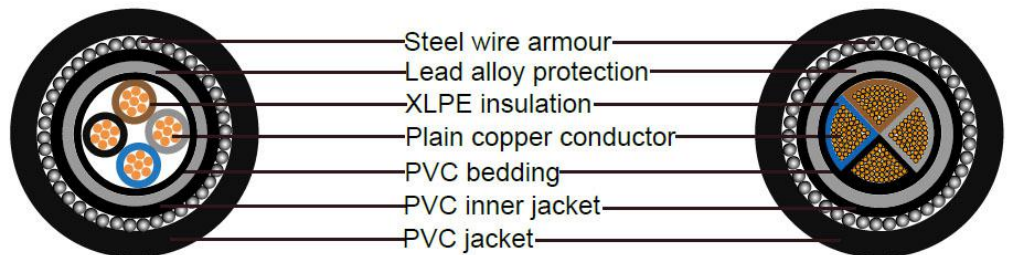
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3x35	7/2.52	0.9	1.3	1	1.6	1.8	33	3500
3x50*	19/1.78	1	1.4	1	1.6	1.8	33.5	3905
3x70*	19/2.14	1.1	1.5	1	2	1.9	37.5	5195
3x95*	19/2.52	1.1	1.5	1.2	2	2.1	41.5	6365
3x120*	37/2.03	1.2	1.6	1.2	2.5	2.2	45.5	7935
3x150*	37/2.25	1.4	1.8	1.4	2.5	2.3	50.5	9645
3x185*	37/2.52	1.6	1.9	1.4	3.15	2.4	56.5	12195
3x240*	61/2.25	1.7	2	1.4	3.15	2.6	62	14765
3x300*	61/2.52	1.8	2.2	1.6	3.5	2.7	68.5	18300

* Shaped stranded conductor

Four-core 600/1000 V cables with lead sheath



Nominal Cross-sectional Area	Strand Type	Nominal Insulation thickness	Nominal Lead sheath thickness	Nominal Inner Sheath thickness	Nominal Steel Wire Armor dia.	Nominal Outer Sheath thickness	Approx. Overall Diameter	Approx. Weight
mm ²	No./m m	mm	mm	mm	mm	mm	mm	kg/km
4x1.5	7/0.53	0.7	1.2	0.8	1.25	1.4	19	1140
4x2.5	7/0.67	0.7	1.2	0.8	1.25	1.4	20	1270
4x4	7/0.85	0.7	1.2	0.8	1.25	1.4	21.5	1455
4x6	7/1.04	0.7	1.2	0.8	1.25	1.5	22.5	1650

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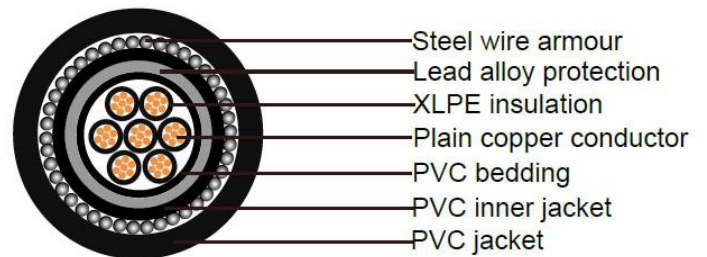
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4x10	7/1.35	0.7	1.2	0.8	1.6	1.5	25	2130
4x16	7/1.70	0.7	1.2	0.8	1.6	1.6	28	2640
4x25	7/2.14	0.9	1.3	1	1.6	1.7	33	3635
4x35	7/2.52	0.9	1.5	1	2	1.8	36.5	4535
4x50*	19/1.78	1.0	1.4	1	2	1.9	38	5000
4x70*	19/2.14	1.1	1.6	1.2	2	2.1	42	6455
4x95*	19/2.52	1.1	1.7	1.2	2.5	2.2	47.5	8535
4x120*	37/2.03	1.2	1.8	1.4	2.5	2.3	52	10155
4x150*	37/2.25	1.4	1.9	1.4	3.15	2.4	58.5	12735
4x185*	37/2.52	1.6	2.1	1.4	3.15	2.6	63.5	15344
4x240*	61/2.25	1.7	2.2	1.6	3.5	2.7	71.5	19382
4x300*	61/2.52	1.8	2.4	1.6	4	2.9	78	21150

* Shaped stranded conductor

Multi-core 600/1000 V cables with lead sheath



Nominal Cross-sectional Area	Strand Type	Nominal Insulation thickness	Nominal Lead sheath thickness	Nominal Inner Sheath thickness	Nominal Steel Wire Armour dia.	Nominal Outer Sheath thickness	Approx. Overall Diameter	Approx Weight
mm ²	No./mm	mm	mm	mm	mm	mm	mm	kg/km
7x1.5	7/0.53	0.7	1.2	0.8	1.25	1.4	20.5	1290



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12x1.5	7/0.53	0.7	1.2	0.8	1.6	1.5	23.5	1395
19x1.5	7/0.53	0.7	1.2	0.8	1.6	1.6	26.5	1720
27x1.5	7/0.53	0.7	1.3	1	1.6	1.7	30.5	1695
37x1.5	7/0.53	0.7	1.5	1	1.6	1.8	34	1960
7x2.5	7/0.67	0.7	1.2	0.8	1.25	1.4	21	2485
12x2.5	7/0.67	0.7	1.2	0.8	1.6	1.6	25.5	2070
19x2.5	7/0.67	0.7	1.3	1	1.6	1.7	29	2545
27x2.5	7/0.67	0.7	1.4	1	1.6	1.8	33.5	3205
37x2.5	7/0.67	0.7	1.5	1	2	1.8	37.5	2660
7x4	7/0.85	0.7	1.2	0.8	1.25	1.5	23.5	3260
12x4	7/0.85	0.7	1.3	1	1.6	1.6	28.5	4430
19x4	7/0.85	0.7	1.4	1	1.6	1.7	32.5	3310
27x4	7/0.85	0.7	1.5	1	2	1.9	38.5	4215
37x4	7/0.85	0.7	1.6	1.2	2	2	42.5	5440

BS 5467 Cable Technical Reference

Maximum resistance of conductor and armour for single-core cable having aluminum wire armour

Nominal cross sectional area of conductor	Maximum resistance per km of cable at 20 °C					
	Copper conductor	Aluminum conductor	Aluminum wire armour			
			Cables with stranded copper conductor		Cables with solid aluminum conductor	
			600/1000 V	1900/3300 V	600/1000 V	1900/3300 V



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mm ^2	Ω	Ω	Ω	Ω	Ω	Ω
50	0.387	0.641	1.3	0.75	1.4	0.79
70	0.268	0.443	0.75	0.67	0.84	0.73
95	0.193	0.32	0.67	0.61	0.75	0.67
120	0.153	0.253	0.61	0.42	0.69	0.47
150	0.124	0.206	0.42	0.39	0.47	0.43
185	0.0991	0.164	0.38	0.37	0.42	0.4
240	0.0754	0.125	0.34	0.34	0.38	0.37
300	0.0601	0.1	0.31	0.31	0.35	0.34
400	0.047	—	0.22	0.22	—	—
500	0.0366	—	0.2	0.2	—	—
630	0.0283	—	0.18	0.18	—	—
800	0.0221	—	0.13	0.13	—	—
1 000	0.0176	—	0.12	0.12	—	—

Maximum resistance of conductor and armour for two-, three-, four- and five-core cables having wire armour

1) With stranded copper conductor

Nominal cross sectional area of conductor	Maximum resistance per km of cable at 20 °C						
	Copper conductor	Aluminum conductor	Steel wire armour				
			Cables with stranded copper conductors				
			Two-core	Three-core		Four-core	Five-core
			600/1000	600/1000	1900/3300	600/1000	600/1000

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mm ²	Ω	Ω	V Ω	V Ω	V Ω	V Ω	V Ω
1.5	12.1	—	10.2	9.5	—	8.8	8.2
2.5	7.41	—	8.8	8.2	—	7.7	6.8
4	4.61	—	7.9	7.5	—	6.8	6.2
6	3.08	—	7	6.7	—	4.3	3.9
10	1.83	—	6	4	—	3.7	3.4
16	1.15	1.91	3.7	3.5	1.9	3.1	2.2
25	0.727	1.2	3.7	2.5	1.7	2.0 2.3	1.8
35	0.524	0.868	2.6	2.3	1.8	—	1.6
50	0.387	0.641	2.3	2	1.3	1.8	1.1
70	0.268	0.443	2	1.8	1.2	1.2	0.94
95	0.193	0.32	1.4	1.3	1.1	1.1	—
120	0.153	0.253	1.3	1.2	0.76	0.76	—
150	0.124	0.206	1.2	0.78	0.71	0.68	—
185	0.099 1	0.164	0.82	0.71	0.65	0.61	—
240	0.075 4	0.125	0.73	0.63	0.59	0.54	—
300	0.060 1	0.1	0.67	0.58	0.55	0.49	—
400	0.047 0	—	0.59	0.52	0.5	0.35	—

2) With solid aluminum conductor

Nominal cross-sectional area of	Maximum resistance per km of cable at 20 °C		
	Copper	Aluminum	Steel wire armour



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conductor mm ²	conductor Ω	conductor Ω	Cables with solid aluminum conductors			
			Two-core	Three-core		Four-core
			600/1000 V	600/1000 V	1900/3300 V	600/1000 V
			Ω	Ω	Ω	Ω
1.5	12.1	—	—	—	—	—
2.5	7.41	—	—	—	—	—
4	4.61	—	—	—	—	—
6	3.08	—	—	—	—	—
10	1.83	—	—	—	—	—
16	1.15	1.91	4	3.8	2	3.4
25	0.727	1.2	4.1	2.7	1.9	2.4
35	0.524	0.868	2.9	2.5	1.9	2.2
50	0.387	0.641	2.6	2.2	1.4	1.9
70	0.268	0.443	2.3	1.9	1.3	1.3
95	0.193	0.32	1.6	1.4	1.2	1.2
120	0.153	0.253	—	1.2	0.82	0.82
150	0.124	0.206	—	0.86	0.76	0.74
185	0.099 1	0.164	—	0.76	0.71	0.67
240	0.075 4	0.125	—	0.68	0.64	0.59
300	0.060 1	0.1	—	0.63	0.59	0.54
400	0.047 0	—	—	—	—	—

3) With Lead Sheath



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1000 0.65 0.08 - - - - - -

Electrical Properties(600/1000 V)

1) Single core with copper conductor

Nominal area of conductor	Single Core Stranded Copper Conductors					
	Current Ratings			Approximate voltage drop per ampere per metre		
	Direct in ground	In single way ducts	Installed in air	Ground	Duct	Air
mm ²	amps	amps	amps	mV	mV	mV
50	235	235	222	0.87	0.93	0.87
70	290	280	285	0.62	0.70	0.62
95	345	330	346	0.47	0.56	0.47
120	390	370	402	0.39	0.48	0.39
150	435	405	463	0.33	0.43	0.33
185	490	440	529	0.28	0.39	0.28
240	560	500	625	0.24	0.35	0.24
300	630	550	720	0.21	0.32	0.21
400	700	580	815	0.20	0.30	0.20
500	770	620	918	0.18	0.28	0.18
630	840	670	1027	0.17	0.26	0.17
800	888	692	1119	0.17	0.25	0.17
1000	942	735	1214	0.16	0.24	0.16

1) Single core with aluminum conductor



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Nominal area of conductor	Single Core Aluminum Conductors					
	Current Ratings			Approximate voltage drop per ampere per metre		
	Direct in ground	In singleway ducts	Installed in air	Ground	Duct	Air
mm ²	amps	amps	amps	mV	mV	mV
50	175	180	162	1.40	1.60	1.40
70	220	220	207	0.98	1.00	0.98
95	260	260	252	0.72	0.79	0.74
120	295	295	292	0.58	0.66	0.60
150	330	330	337	0.48	0.57	0.49
185	375	365	391	0.39	0.49	0.41
240	435	410	465	0.31	0.42	0.34
300	490	455	540	0.27	0.38	0.29
400	540	480	625	0.35	0.38	0.25
500	580	510	714	0.31	0.35	0.22
630	630	540	801	0.28	0.32	0.20

2) Two cores with copper conductor

Nominal area of conductor	Two Cores Stranded Copper Conductors					
	Current Ratings			Approximate voltage drop per ampere per metre		
	Direct in ground	In single way ducts	Installed in air	Ground	Duct	Air
mm ²	amps	amps	amps	mV	mV	mV



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16*	140	115	115	2.9	2.9	2.9
25*	180	145	152	1.9	1.9	1.9
35*	215	175	188	1.3	1.3	1.3
50	255	210	228	1.0	1.0	1.0
70	315	260	291	0.7	0.7	0.7
95	381	313	354	0.5	0.5	0.5
120	410	344	430	0.4	0.4	0.4
150	472	384	480	0.4	0.4	0.4
185	539	432	540	0.3	0.3	0.3
240	636	504	630	0.2	0.2	0.2
300	732	560	700	0.2	0.2	0.2

2) Two cores with aluminum conductor

Nominal area of conductor	Two Cores Aluminum Conductors					
	Current Ratings			Approximate voltage drop per ampere per metre		
	Direct in ground	In single way ducts	Installed in air	Ground	Duct	Air
mm ²	amps	amps	amps	mV	mV	mV
25*	135	110	112	3.1	3.1	3.1
35*	165	130	138	2.2	2.2	2.2
50	195	155	166	1.7	1.7	1.7
70	240	195	211	1.1	1.1	1.1
95	288	237	254	0.8	0.8	0.8

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3) Three cores with copper conductor

Nominal area of conductor	Three Cores Stranded Copper Conductors					
	Current Ratings			Approximate voltage drop per ampere per metre		
	Direct in ground	In singleway ducts	Installed in air	Ground	Duct	Air
mm ²	amps	amps	amps	mV	mV	mV
16	115	94	99	2.5	2.5	2.5
25	150	125	131	1.7	1.7	1.7
35	180	150	162	1.2	1.2	1.2
50	215	175	197	0.9	0.9	0.9
70	265	215	251	0.6	0.6	0.6
95	315	260	304	0.5	0.5	0.5
120	360	300	353	0.4	0.4	0.4
150	405	335	406	0.3	0.3	0.3
185	460	380	463	0.3	0.3	0.3
240	530	440	546	0.2	0.2	0.2
300	590	495	628	0.2	0.2	0.2
400	667	570	728	0.2	0.2	0.2

3) Three cores with aluminum conductor

Nominal area of conductor	Three Cores Aluminum Conductors					
	Current Ratings			Approximate voltage drop per ampere per metre		
	Direct in	In singleway	Installed in	Ground	Duct	Air



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	ground	ducts	air			
mm ²	amps	amps	amps	mV	mV	mV
16	89	72	74	4.2	4.2	4.2
25	115	94	98	2.7	2.7	2.7
35	135	110	120	1.9	1.9	1.9
50	165	135	145	1.4	1.4	1.4
70	200	165	185	1.0	1.0	1.0
95	240	200	224	0.7	0.7	0.7
120	275	230	264	0.6	0.6	0.6
150	310	255	305	0.5	0.5	0.5
185	350	295	350	0.4	0.4	0.4
240	410	340	418	0.3	0.3	0.3
300	460	385	488	0.3	0.3	0.3
400	520	443	562	0.2	0.2	0.2

4) Four cores with copper conductor

Nominal area of conductor	Four Cores Stranded Copper Conductors					
	Current Ratings			Approximate voltage drop per ampere per metre		
	Direct in ground	In singleway ducts	Installed in air	Ground	Duct	Air
mm ²	amps	amps	amps	mV	mV	mV
16	115	94	99	2.5	2.5	2.5
25	150	125	131	1.7	1.7	1.7



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35	180	150	162	1.2	1.2	1.2
50	215	175	197	0.9	0.9	0.9
70	265	215	251	0.6	0.6	0.6
95	315	260	304	0.5	0.5	0.5
120	360	300	353	0.4	0.4	0.4
150	405	335	406	0.3	0.3	0.3
185	460	380	463	0.3	0.3	0.3
240	530	440	546	0.2	0.2	0.2
300	590	495	628	0.2	0.2	0.2
400	667	570	728	0.2	0.2	0.2
500	720	605	800	0.2	0.2	0.2

4) Four cores with aluminum conductor

Nominal area of conductor	Four Cores Aluminum Conductors					
	Current Ratings			Approximate voltage drop per ampere per metre		
	Direct in ground	In singleway ducts	Installed in air	Ground	Duct	Air
mm ²	amps	amps	amps	mV	mV	mV
16	89	72	74	4.2	4.2	4.2
25	115	94	98	2.7	2.7	2.7
35	135	110	120	1.9	1.9	1.9
50	165	135	145	1.4	1.4	1.4
70	200	165	185	1.0	1.0	1.0
95	240	200	224	0.7	0.7	0.7



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120	275	230	264	0.6	0.6	0.6
150	310	255	305	0.5	0.5	0.5
185	350	295	350	0.4	0.4	0.4
240	410	340	418	0.3	0.3	0.3
300	460	385	488	0.3	0.3	0.3
400	520	443	562	0.2	0.2	0.2
500	561	470	618	0.2	0.2	0.2

Electrical Properties(1900/3300 V)

Nominal area of conductor	Single Core Stranded Copper Conductors			Nominal area of conductor	Three Core Stranded Copper Conductors		
	Current Ratings				Current Ratings		
	Direct in ground	In single wayducts	Installed in air		Direct in ground	In single wayducts	Installed in air
mm ²	amps	amps	amps	mm ²	amps	amps	amps
50	222	219	228	16	114	96	106
70	271	264	285	25	147	124	142
95	324	310	350	35	175	147	168
120	366	342	407	50	207	174	202
150	409	376	463	70	254	214	255
185	460	414	528	95	304	257	312
240	528	464	623	120	345	293	361
300	589	506	710	150	387	328	410
400	651	535	808	185	436	371	471



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500	720	579	915	240	502	428	554
630	789	624	1030	300	563	480	634
800	831	650	1119	-	-	-	-
1000	880	689	1214	-	-	-	-