

4. Industrial - Aluminium

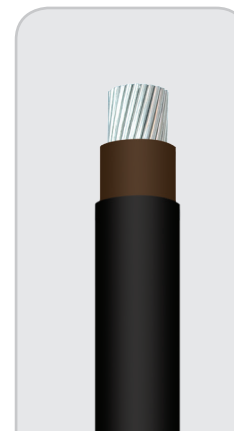
4.1.1

Single Core PVC Insulated and PVC Sheathed Unarmoured - Circular Conductor

Application: Use in fixed installations in industrial areas, buildings and similar applications.

Specifications

Type		: Al/PVC/PVC
Standard		: BS 6346
Nominal Voltage		: 600/1000V
Conductor		: Stranded Aluminium Wires
Insulation	Material	: PVC TI 1
	Colour	: Refer last page - "CABLE CORE COLOURS"
Sheathing	Material	: PVC TM 1
	Colour	: Black



Nominal Cross Sectional Area	No. & Dia. of wires	Nominal Insulation Thickness	Nominal Sheathing Thickness	Approx. Overall Diameter	Max. d.c. Resistance at 20 °C	Approx. Weight
mm ²	x/mm	mm	mm	mm	Ω/km	kg/km
50	19/1.78	1.4	1.5	14.7	0.641	306
70	19/2.14	1.4	1.6	16.7	0.443	402
95	19/2.52	1.6	1.6	19	0.320	527
120	37/2.03	1.6	1.7	20.8	0.253	628
150	37/2.25	1.8	1.7	22.8	0.206	753
185	37/2.52	2.0	1.8	25.2	0.164	930
240	61/2.25	2.2	1.9	28.5	0.125	1178
300	61/2.52	2.4	1.9	31.3	0.100	1434
400	61/2.85	2.6	2.0	35.1	0.0778	1806
500	61/3.20	2.8	2.1	38.6	0.0605	2207
630	91/2.98	2.8	2.2	42.8	0.0469	2737
800	91/3.35	2.8	2.3	47.3	0.0367	3363
1000	91/3.74	3.0	2.5	52.1	0.0313	4114

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4.1.2

Single Core XLPE Insulated and PVC Sheathed Unarmoured - Circular Conductor

Application: Use in fixed installations in industrial areas, buildings and similar applications.

Specifications

Type		: Al/XLPE/PVC
Standard		: BS 7889
Nominal Voltage		: 600/1000V
Conductor		: Stranded Aluminum Wires
Insulation	Material	: XLPE
	Colour	: Refer last page - "CABLE CORE COLOURS"
Sheathing	Material	: PVC Type 9
	Colour	: Black



Nominal Cross sectional Area	No. & Dia. Of wires	Nominal Insulation Thickness	Nominal Sheathing Thickness	Approx. Overall Diameter	Max. d.c. Resistance at 20 °C	Approx. Weight
mm ²	x/mm	mm	mm	mm	Ω/km	kg/km
50	19/1.78	1.0	1.4	12.9	0.641	251
70	19/2.14	1.1	1.4	14.7	0.443	335
95	19/2.52	1.1	1.5	16.6	0.320	440
120	37/2.03	1.2	1.5	18.1	0.253	530
150	37/2.25	1.4	1.6	20.1	0.206	650
185	37/2.52	1.6	1.6	22.2	0.164	795
240	61/2.25	1.7	1.7	24.8	0.125	1009
300	61/2.52	1.8	1.8	27.3	0.100	1241
400	61/2.85	2.0	1.9	30.8	0.0778	1561
500	61/3.20	2.2	2.0	34.2	0.0605	1938
630	91/2.98	2.4	2.1	37.6	0.0469	2459
800	91/3.35	2.6	2.3	41.7	0.0367	3079
1000	91/3.74	2.8	2.4	46.9	0.0291	3779

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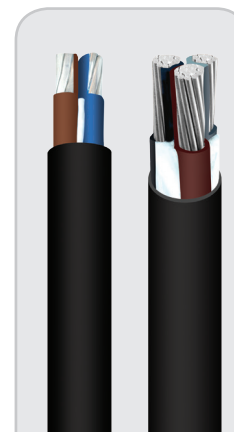
4.2.1

Two & Three Core PVC Insulated and PVC Sheathed Unarmoured - Circular Conductor

Application: Use in fixed installations in industrial areas, buildings and similar applications.

Specifications

Type		: Al/PVC/PVC
Standard		: BS 6346
Nominal Voltage		: 600/1000V
Conductor		: Stranded Aluminium Wires
Insulation	Material	: PVC TI 1
	Colour	: Refer last page - "CABLE CORE COLOURS"
Sheathing	Material	: PVC TM 1
	Colour	: Black



Nominal Cross Sectional Area	Nominal Insulation Thickness	Nominal Sheathing Thickness	Approx. Overall Diameter	Max. d.c. Resistance at 20 °C	Approx. Weight
mm ²	mm	mm	mm	Ω/km	kg/km
Two Core					
2 x 16	1.0	1.6	17.7	1.91	278
2 x 25	1.2	1.7	21.3	1.20	399
2 x 35	1.2	1.8	24	0.868	504
Three Core					
3 x 16	1.0	1.6	18.8	1.91	364
3 x 25	1.2	1.7	22.8	1.20	531
3 x 35	1.2	1.8	25.6	0.868	675

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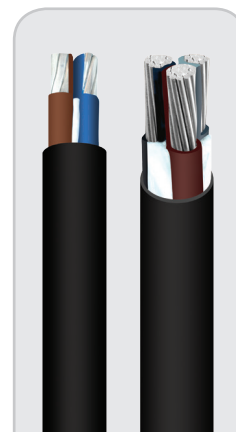
4.2.2

Two & Three Core XLPE Insulated and PVC Sheathed Unarmoured - Circular Conductor

Application: Use in fixed installations in industrial areas, buildings and similar applications.

Specifications

Type		: Al/XLPE/PVC
Standard		: BS 5467
Nominal Voltage		: 600/1000V
Conductor		: Stranded Aluminium Wires
Insulation	Material	: XLPE
	Colour	: Refer last page - "CABLE CORE COLOURS"
Sheathing	Material	: PVC Type 9
	Colour	: Black



Nominal Cross Sectional Area	Nominal Insulation Thickness	Nominal Sheathing Thickness	Approx. Overall Diameter	Max. d.c. Resistance at 20 °C	Approx. Weight
mm ²	mm	mm	mm	Ω/km	kg/km
Two Core					
2 x 16	0.7	1.5	16.3	1.91	225
2 x 25	0.9	1.6	19.9	1.20	329
2 x 35	0.9	1.7	22.6	0.868	423
Three Core					
3 x 16	0.7	1.6	17.5	1.91	299
3 x 25	0.9	1.7	21.4	1.20	443
3 x 35	0.9	1.8	24.3	0.868	572

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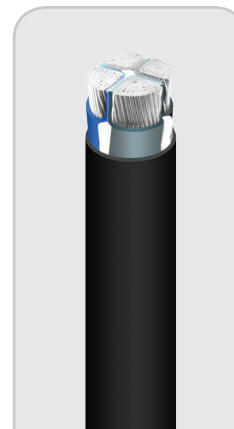
4.3.1

Four Core PVC Insulated and PVC Sheathed Unarmoured - Circular & Shaped Conductor

Application: Use in fixed installations in industrial areas, buildings and similar applications.

Specifications

Type		: Al/PVC/PVC
Standard		: BS 6346
Nominal Voltage		: 600/1000V
Conductor		: Stranded Aluminium Wires
Insulation	Material	: PVC TI 1
	Colour	: Refer last page - "CABLE CORE COLOURS"
Sheathing	Material	: PVC TM 1
	Colour	: Black



Nominal Cross Sectional Area	Nominal Insulation Thickness	Nominal Sheathing Thickness	Approx. Overall Diameter	Max. d.c. Resistance at 20 °C	Approx. Weight
mm ²	mm	mm	mm	Ω/km	kg/km
Circular Stranded Conductor					
4 x 16	1.0	1.7	20.9	1.91	465
4 x 25	1.2	1.8	25.2	1.20	681
4 x 35	1.2	1.9	28.4	0.868	867
Shaped Stranded Conductor					
4 x 35	1.2	1.9	24.1	0.868	799
4 x 50	1.4	2.0	28.2	0.641	1053
4 x 70	1.4	2.1	32.0	0.443	1394
4 x 95	1.6	2.2	36.6	0.320	1864
4 x 120	1.6	2.4	40.4	0.253	2303
4 x 150	1.8	2.5	44.7	0.206	2738
4 x 185	2.0	2.6	49.3	0.164	3407
4 x 240	2.2	2.8	55.6	0.125	4333
4 x 300	2.4	3.0	61.7	0.100	5409

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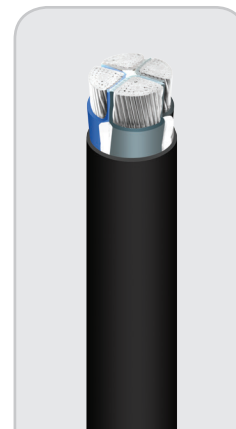
4.3.2

Four Core XLPE Insulated and PVC Sheathed Unarmoured - Circular & Shaped Conductor

Application: Use in fixed installations in industrial areas, buildings and similar applications.

Specifications

Type		: Al/XLPE/PVC
Standard		: BS 5467
Nominal Voltage		: 600/1000V
Conductor		: Stranded Aluminium Wires
Insulation	Material	: XLPE
	Colour	: Refer last page - "CABLE CORE COLOURS"
Sheathing	Material	: PVC Type 9
	Colour	: Black



Nominal Cross Sectional Area	Nominal Insulation Thickness	Nominal Sheathing Thickness	Approx. Overall Diameter	Max. d.c. Resistance at 20 °C	Approx. Weight
mm ²	mm	mm	mm	Ω/km	kg/km
Circular Stranded Conductor					
4 x 16	0.7	1.6	19.2	1.91	371
4 x 25	0.9	1.7	23.6	1.20	554
4 x 35	0.9	1.8	26.8	0.868	719
Shaped Stranded Conductor					
4 x 35	0.9	1.8	23.0	0.868	666
4 x 50	1.0	1.9	26.8	0.641	868
4 x 70	1.1	2.1	31.1	0.443	1212
4 x 95	1.1	2.2	35.1	0.320	1587
4 x 120	1.2	2.3	39.0	0.253	1998
4 x 150	1.4	2.4	43.3	0.206	2379
4 x 185	1.6	2.6	48.1	0.164	2998
4 x 240	1.7	2.7	53.9	0.125	3778
4 x 300	1.8	2.9	59.6	0.100	4712

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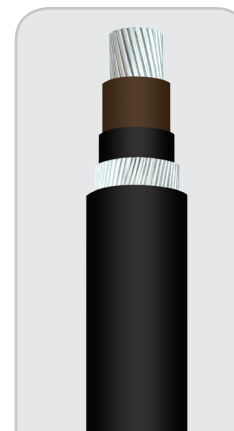
4.4.1

Single Core PVC Insulated and PVC Sheathed Armoured - Circular Conductor

Application: Use in fixed installations in industrial areas, buildings and similar applications.

Specifications

Type		: Al/PVC/AWA/PVC
Standard		: BS 6346
Nominal Voltage		: 600/1000V
Conductor		: Stranded Aluminium Wires
Insulation	Material	: PVC TI 1
	Colour	: Refer last page - "CABLE CORE COLOURS"
Sheathing	Material	: PVC TM 1
	Colour	: Black



Nominal Cross Sectional Area	No. & Dia. of wires	Nominal Insulation Thickness	Nominal Bedding Thickness	Nominal Al Armour Wire Diameter	Nominal Sheathing Thickness	Approx. Overall Diameter	Max. d.c. Resistance at 20 °C	Approx. Weight
mm ²	x/mm	mm	mm	mm	mm	mm	Ω/km	kg/km
50	19/1.78	1.4	0.8	1.25	1.5	17.8	0.641	499
70	19/2.14	1.4	0.8	1.25	1.6	19.6	0.443	618
95	19/2.52	1.6	0.8	1.25	1.6	21.7	0.320	769
120	37/2.03	1.6	1.0	1.6	1.7	24.3	0.253	971
150	37/2.25	1.8	1.0	1.6	1.7	26.1	0.206	1125
185	37/2.52	2.0	1.0	1.6	1.8	28.3	0.164	1339
240	61/2.25	2.2	1.0	1.6	1.9	31.2	0.125	1634
300	61/2.52	2.4	1.0	1.6	1.9	33.7	0.100	1932
400	61/2.85	2.6	1.2	2.0	2.0	38.4	0.0778	2501
500	61/3.20	2.8	1.2	2.0	2.1	41.7	0.0605	2966
630	91/2.98	2.8	1.2	2.0	2.2	44.6	0.0469	3572
800	91/3.35	2.8	1.4	2.5	2.3	49.5	0.0367	4501
1000	91/3.74	3.0	1.4	2.5	2.5	54.9	0.0313	5362

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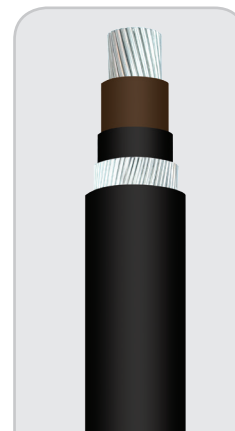
4.4.2

Single Core XLPE Insulated and PVC Sheathed Armoured - Circular Conductor

Application: Use in fixed installations in industrial areas, buildings and similar applications.

Specifications

Type	:	Al/XLPE/AWA/PVC
Standard	:	BS 5467
Nominal Voltage	:	600/1000V
Conductor	:	Stranded Aluminium Wires
Insulation	Material	: XLPE
	Colour	: Refer last page - "CABLE CORE COLOURS"
Sheathing	Material	: PVC Type 9
	Colour	: Black



Nominal Cross Sectional Area	No. & Dia. of wires	Nominal Insulation Thickness	Nominal Bedding Thickness	Nominal Al Armour Wire Diameter	Nominal Sheathing Thickness	Approx. Overall Diameter	Max. d.c. Resistance at 20 °C	Approx. Weight
mm ²	x/mm	mm	mm	mm	mm	mm	Ω/km	kg/km
50	19/1.78	1.0	0.8	0.9	1.5	16.3	0.641	403
70	19/2.14	1.1	0.8	1.25	1.5	18.7	0.443	549
95	19/2.52	1.1	0.8	1.25	1.6	20.6	0.320	679
120	37/2.03	1.2	0.8	1.25	1.6	22.1	0.253	792
150	37/2.25	1.4	1.0	1.6	1.7	25.2	0.206	1020
185	37/2.52	1.6	1.0	1.6	1.8	27.4	0.164	1215
240	61/2.25	1.7	1.0	1.6	1.8	29.9	0.125	1461
300	61/2.52	1.8	1.0	1.6	1.9	32.4	0.100	1735
400	61/2.85	2.0	1.2	2.0	2.0	37.1	0.0778	2246
500	61/3.20	2.2	1.2	2.0	2.1	40.4	0.0605	2694
630	91/2.98	2.4	1.2	2.0	2.2	43.8	0.0469	3300
800	91/3.35	2.6	1.4	2.5	2.3	49.1	0.0367	4231
1000	91/3.74	2.8	1.4	2.5	2.5	54.4	0.0291	5043

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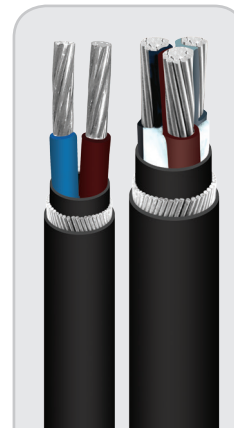
4.5.1

Two & Three Core PVC Insulated and PVC Sheathed Armoured - Circular Conductor

Application: Use in fixed installations in industrial areas, buildings and similar applications.

Specifications

Type		: Al/PVC/SWA/PVC
Standard		: BS 6346
Nominal Voltage		: 600/1000V
Conductor		: Stranded Aluminium Wires
Insulation	Material	: PVC TI 1
	Colour	: Refer last page - "CABLE CORE COLOURS"
Sheathing	Material	: PVC TM 1
	Colour	: Black



Nominal Cross Sectional Area	Nominal Insulation Thickness	Nominal Bedding Thickness	Nominal Steel Armour Wire Diameter	Nominal Sheathing Thickness	Approx. Overall Diameter	Max. d.c. Resistance at 20 °C	Approx. Weight
mm ²	mm	mm	mm	mm	mm	Ω/km	kg/km
Two Core							
2 x 16	1.0	0.8	1.25	1.6	20.6	1.91	769
2 x 25	1.2	1.0	1.6	1.7	25.0	1.20	1170
2 x 35	1.2	1.0	1.6	1.8	27.2	0.868	1361
Three Core							
3 x 16	1.0	0.8	1.25	1.6	21.7	1.91	956
3 x 25	1.2	1.0	1.6	1.7	26.4	1.20	1680
3 x 35	1.2	1.0	1.6	1.8	28.7	0.868	1965

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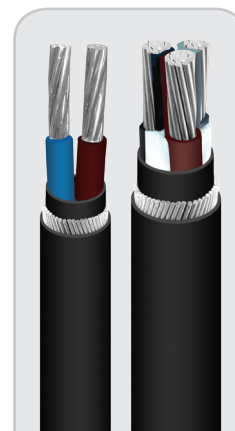
4.5.2

Two & Three Core XLPE Insulated and PVC Sheathed Armoured - Circular Conductor

Application: Use in fixed installations in industrial areas, buildings and similar applications.

Specifications

Type		: Al/XLPE/SWA/PVC
Standard		: BS 5467
Nominal Voltage		: 600/1000V
Conductor		: Stranded Aluminium Wires
Insulation	Material	: XLPE
	Colour	: Refer last page - "CABLE CORE COLOURS"
Sheathing	Material	: PVC Type 9
	Colour	: Black



Nominal Cross Sectional Area	Nominal Insulation Thickness	Nominal Bedding Thickness	Nominal Steel Armour Wire Diameter	Nominal Sheathing Thickness	Approx. Overall Diameter	Max. d.c. Resistance at 20 °C	Approx. Weight
mm ²	mm	mm	mm	mm	mm	Ω/km	kg/km
Two Core							
2 x 16	0.7	0.8	1.25	1.5	19.1	1.91	682
2 x 25	0.9	0.8	1.25	1.6	22.4	1.20	880
2 x 35	0.9	1.0	1.6	1.7	25.7	0.868	1236
Three Core							
3 x 16	0.7	0.8	1.25	1.6	20.3	1.91	786
3 x 25	0.9	1.0	1.6	1.7	24.9	1.20	1217
3 x 35	0.9	1.0	1.6	1.8	27.3	0.868	1440

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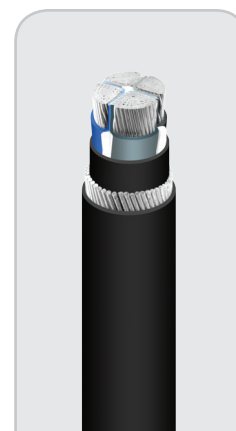
4.6.1

Four Core PVC Insulated and PVC Sheathed Armoured - Circular & Shaped Conductor

Application: Use in fixed installations in industrial areas, buildings and similar applications.

Specifications

Type	:	Al/PVC/SWA/PVC
Standard	:	BS 6346
Nominal Voltage	:	600/1000V
Conductor	:	Stranded Aluminium Wires
Insulation	Material	: PVC TI 1
	Colour	: Refer last page - "CABLE CORE COLOURS"
Sheathing	Material	: PVC TM 1
	Colour	: Black



Nominal Cross Sectional Area	Nominal Insulation Thickness	Nominal Bedding Thickness	Nominal Steel Armour Wire Diameter	Nominal Sheathing Thickness	Approx. Overall Diameter	Max. d.c. Resistance at 20 °C	Approx. Weight
mm ²	mm	mm	mm	mm	mm	Ω/km	kg/km
Circular Stranded Conductor							
4 x 16	1.0	1.0	1.6	1.7	24.7	1.91	1219
4 x 25	1.2	1.0	1.6	1.8	28.7	1.20	1581
4 x 35	1.2	1.0	1.6	1.9	31.3	0.868	1872
Shaped Stranded Conductor							
4 x 35	1.2	1.0	1.6	1.9	28.6	0.868	1657
4 x 50	1.4	1.2	2.0	2.0	33.3	0.641	2316
4 x 70	1.4	1.2	2.0	2.1	36.8	0.443	2814
4 x 95	1.6	1.2	2.0	2.2	41.5	0.320	3476
4 x 120	1.6	1.4	2.5	2.4	46.1	0.253	4528
4 x 150	1.8	1.4	2.5	2.5	50.1	0.206	5189
4 x 185	2.0	1.6	2.5	2.6	55.1	0.164	6161
4 x 240	2.2	1.6	2.5	2.8	61.2	0.125	7411
4 x 300	2.4	1.6	2.5	3.0	67.0	0.100	8800

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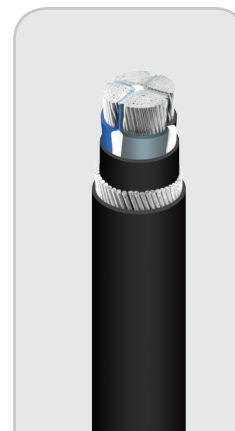
4.6.2

Four Core XLPE Insulated and PVC Sheathed Armoured - Circular & Shaped Conductor

Application: Use in fixed installations in industrial areas, buildings and similar applications.

Specifications

Type	:	Al/XLPE/SWA/PVC
Standard	:	BS 5467
Nominal Voltage	:	600/1000V
Conductor	:	Stranded Aluminium Wires
Insulation	Material	: XLPE
	Colour	: Refer last page - "CABLE CORE COLOURS"
Sheathing	Material	: PVC Type 9
	Colour	: Black



Nominal Cross Sectional Area	Nominal Insulation Thickness	Nominal Bedding Thickness	Nominal Steel Armour Wire Diameter	Nominal Sheathing Thickness	Approx. Overall Diameter	Max. d.c. Resistance at 20 °C	Approx. Weight
mm ²	mm	mm	mm	mm	mm	Ω/km	kg/km
Circular Stranded Conductor							
4 x 16	0.7	0.8	1.25	1.6	21.8	1.91	903
4 x 25	0.9	1.0	1.6	1.7	26.9	1.20	1401
4 x 35	0.9	1.0	1.6	1.8	29.5	0.868	1971
Shaped Stranded Conductor							
4 x 35	0.9	1.0	1.6	1.8	27.0	0.868	1491
4 x 50	1.0	1.0	1.6	1.9	30.0	0.641	1816
4 x 70	1.1	1.2	2.0	2.1	35.3	0.443	2593
4 x 95	1.1	1.2	2.0	2.2	39.0	0.320	3135
4 x 120	1.2	1.4	2.5	2.3	44.0	0.253	4155
4 x 150	1.4	1.4	2.5	2.4	47.9	0.206	4762
4 x 185	1.6	1.4	2.5	2.6	52.7	0.164	5620
4 x 240	1.7	1.6	2.5	2.7	58.5	0.125	6771
4 x 300	1.8	1.6	2.5	2.9	63.8	0.100	8003