

XLPE / PVC
(single core,
2-4 & multi-cores)

XLPE / AWA / PVC
(single core)

XLPE / SWA / PVC
(2-4 & multi-cores)

single core

2-4 cores

multi-cores



single core

2-4 cores

multi-cores

Conductor :
Insulation :
Bedding :

Armour :
Sheath :
Colour :

Voltage Uo/U :
Conductor Stranding :

Operating Temperature :
Minimum Bending Radius :

Fire Performance :

Plain Annealed Copper
XLPE Compound
PVC Compound Type ST2

Aluminium Wire
PVC Compound Type ST2
Insulation: Natural
Sheath: Black

600 / 1000 V
Class 2 stranded circular or
compacted conductors
Maximum 90°C
Unarmoured: 8D for 16mm²
to 1000mm²
Armoured: 10D for 25mm²
to 1000mm²
IEC 60332-1

Plain Annealed Copper
XLPE Compound
PVC Compound Type ST2
or Lapped PVC Tape
Galvanised Steel Wire
PVC Compound Type ST2

Insulation: 2 Cores - Red & Black or
Brown & Blue
3 Cores - Red, Yellow & Blue
or Brown, Black &
Grey
4 Cores - Red, Yellow, Blue
& Black or Brown,
Black, Grey & Blue

Sheath: Black
600 / 1000 V
Class 2 stranded circular or compacted
conductors
Maximum 90°C
Unarmoured: 6D for 1.5mm² to 300mm²
Armoured: 8D for 1.5mm² to 300mm²

IEC 60332-1

Plain Annealed Copper
XLPE Compound
PVC Compound Type ST2
or Lapped PVC Tape
Galvanised Steel Wire
PVC Compound Type ST2
Insulation: White with Black
numberings
Sheath: Black

600 / 1000 V
Class 2 stranded circular

Maximum 90°C
Unarmoured: 6D for 1.5mm²
to 4mm²
Armoured: 8D for 1.5mm²
to 4mm²

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XLPE / PVC & XLPE / AWA / PVC Cables IEC 60502

Table 12

Nominal Conductor Area (mm ²)	No. and Diameter of Wire (no./mm)	Radial Thickness of Insulation (mm)	XP		XAP			Approx. Weight (kg/km)
			Cable Overall Diameter (mm)	Approx. Weight (kg/km)	Diameter Under Armour (mm)	Armour Wire Diameter (mm)	Cable Overall Diameter (mm)	
16	7 / 1.70	0.7	9.6	205	-	-	-	-
25	7 / 2.14	0.9	11.3	309	10.6	0.9	16.0	470
35	7 / 2.52	0.9	12.5	412	11.8	0.9	17.2	581
50	19 / 1.78	1.0	14.0	540	13.3	1.25	19.4	800
70	19 / 2.14	1.1	16.1	760	15.4	1.25	21.5	960
95	19 / 2.52	1.1	18.2	1020	17.3	1.25	23.4	1240
120	37 / 2.03	1.2	20.0	1270	19.1	1.6	25.9	1650
150	37 / 2.25	1.4	22.2	1560	21.0	1.60	27.9	1970
185	37 / 2.52	1.6	24.4	1930	23.3	1.60	30.1	2390
240	61 / 2.25	1.7	27.5	2510	26.1	1.6	33.2	3040
300	61 / 2.52	1.8	30.3	3120	28.7	1.6	35.8	3790
400	61 / 2.85	2.0	33.9	3970	32.1	2.0	40.9	4790
500	61 / 3.20	2.2	37.6	4980	35.7	2.0	44.6	5880
630	127 / 2.52	2.4	42.4	6400	40.4	2.0	49.2	7400
800	127 / 2.85	2.6	47.3	8190	45.1	2.5	55.7	9500
1000	127 / 3.20	2.8	52.4	10265	50.1	2.5	61.0	11750

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Table 13

Nominal Conductor Area (mm ²)	No. and Diameter of Wire (no./mm)	Radial Thickness of Insulation (mm)	XP		XSP		Approx. Weight (kg/km)	
			Cable Overall Diameter (mm)	Approx. Weight (kg/km)	Diameter Under Armour (mm)	Armour Wire Diameter (mm)		Cable Overall Diameter (mm)
2 x 1,5	7 / 0,53	0,7	10,0	130	8,5	0,9	13,9	350
2 x 2,5	7 / 0,67	0,7	10,8	165	9,3	0,9	14,7	400
2 x 4	7 / 0,85	0,7	11,9	210	10,4	0,9	15,8	475
2 x 6	7 / 1,04	0,7	13,0	270	11,5	0,9	16,9	560
2 x 10	7 / 1,35	0,7	14,9	390	13,4	1,25	19,5	810
2 x 16	7 / 1,70	0,7	17,0	450	15,5	1,25	21,6	980
2 x 25	7 / 2,14	0,9	20,4	820	18,9	1,6	25,7	1410
2 x 35	7 / 2,52	0,9	22,7	1065	21,2	1,6	28,0	1930
2 x 50 (S)	19 / 1,78	1,0	21,0	1140	19,2	1,6	26,0	1880
2 x 70 (S)	19 / 2,14	1,1	24,0	1560	22,3	1,6	29,5	2420
2 x 95 (S)	19 / 2,52	1,1	26,9	2130	25,3	2,0	33,5	3360
2 x 120 (S)	37 / 2,03	1,2	29,9	2640	28,1	2,0	36,5	3980
2 x 150 (S)	37 / 2,25	1,4	33,4	3270	30,9	2,0	39,5	4730
2 x 185 (S)	37 / 2,52	1,6	37,1	4040	36,0	2,0	45,0	6245
2 x 240 (S)	61 / 2,25	1,7	45,0	5150	41,6	2,5	52,0	7820
2 x 300 (S)	61 / 2,52	1,8	50,0	6560	47,4	2,5	58,0	9390
3 x 1,5	7 / 0,53	0,7	10,5	150	9,0	0,9	14,4	390
3 x 2,5	7 / 0,67	0,7	11,4	195	9,9	0,9	15,3	450
3 x 4	7 / 0,85	0,7	12,5	255	11,0	0,9	16,4	540
3 x 6	7 / 1,04	0,7	13,8	330	12,3	0,9	17,7	745
3 x 10	7 / 1,35	0,7	15,8	490	14,3	1,25	20,4	950
3 x 16	7 / 1,70	0,7	18,0	700	16,5	1,25	22,6	1250
3 x 25	7 / 2,14	0,9	21,7	1000	20,2	1,6	27,0	1840
3 x 35	7 / 2,52	0,9	24,2	1300	23,0	1,6	29,8	2280
3 x 50 (S)	19 / 1,78	1,0	25,0	1600	23,0	1,6	30,0	2550
3 x 70 (S)	19 / 2,14	1,1	29,0	2240	27,0	2,0	35,0	3500
3 x 95 (S)	19 / 2,52	1,1	32,0	3050	30,1	2,0	38,5	4500
3 x 120 (S)	37 / 2,03	1,2	36,5	3800	34,4	2,0	43,0	5700
3 x 150 (S)	37 / 2,25	1,4	39,0	4640	37,5	2,5	47,5	6800
3 x 185 (S)	37 / 2,52	1,6	44,0	5870	41,3	2,5	51,5	8200
3 x 240 (S)	61 / 2,25	1,7	49,0	7670	46,4	2,5	57,0	10300
3 x 300 (S)	61 / 2,52	1,8	55,0	9460	52,0	2,5	63,0	12500
4 x 1,5	7 / 0,53	0,7	11,3	175	10,0	0,9	15,4	430
4 x 2,5	7 / 0,67	0,7	12,3	225	10,8	0,9	16,2	505
4 x 4	7 / 0,85	0,7	13,6	305	12,1	0,9	17,5	710
4 x 6	7 / 1,04	0,7	15,0	405	13,5	1,25	19,6	855
4 x 10	7 / 1,35	0,7	17,2	600	15,7	1,25	21,8	1120
4 x 16	7 / 1,70	0,7	19,7	870	18,2	1,6	25,0	1600
4 x 25	7 / 2,14	0,9	23,9	1325	22,4	1,6	29,2	2160
4 x 35	7 / 2,52	0,9	26,6	1760	25,1	1,6	32,1	2750
4 x 35 (S)	7 / 2,52	0,9	25,0	1600	24,0	1,6	31,0	2500
4 x 50 (S)	19 / 1,78	1,0	28,5	2200	26,8	1,6	34,0	3100
4 x 70 (S)	19 / 2,14	1,1	32,0	3050	30,6	2,0	39,0	4400
4 x 95 (S)	19 / 2,52	1,1	37,0	4070	34,4	2,0	43,0	5610
4 x 120 (S)	37 / 2,03	1,2	42,0	5195	36,0	2,5	46,0	7400
4 x 150 (S)	37 / 2,25	1,4	46,0	6350	38,3	2,5	48,5	8300
4 x 185 (S)	37 / 2,52	1,6	50,0	7890	46,4	2,5	57,0	10400
4 x 240 (S)	61 / 2,25	1,7	55,0	10400	51,0	2,5	62,0	13000
4 x 300 (S)	61 / 2,52	1,8	63,0	12810	56,6	2,5	68,0	15900

Note: (S) - Sectoral Stranded Conductors.

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Table 14

No. of Cores	Nominal Conductor Area (mm ²)	No. and Diameter of Wire (no./mm)	Radial Thickness of Insulation (mm)	XP		XSP			Approx. Weight (kg/km)
				Cable Overall Diameter (mm)	Approx. Weight (kg/km)	Diameter Under Armour (mm)	Armour Wire Diameter (mm)	Cable Overall Diameter (mm)	
5	1.5	7 / 0.53	0.7	11.9	214.5	10.5	0.9	15.9	493.9
7		7 / 0.53	0.7	12.9	235.5	11.5	0.9	16.9	560.7
12		7 / 0.53	0.7	16.5	391.1	15.1	1.25	21.2	903.9
19		7 / 0.53	0.7	19.4	522.0	17.7	1.25	23.8	1167.8
37		7 / 0.53	0.7	25.4	981.0	23.3	1.6	30.1	1872.0
5	2.5	7 / 0.67	0.7	13.1	280.4	11.7	0.9	17.1	586.8
7		7 / 0.67	0.7	14.1	317.5	12.7	0.9	18.1	676.1
12		7 / 0.67	0.7	18.4	500.0	16.8	1.25	22.9	1095.8
19		7 / 0.67	0.7	21.4	737.0	19.8	1.6	26.6	1593.2
37		7 / 0.67	0.7	28.4	1327.0	27.0	1.6	33.8	2361.0
5	4	7 / 0.85	0.7	14.5	381.6	13.1	1.25	19.2	823.0
7		7 / 0.85	0.7	16.0	470.0	14.3	1.25	20.4	906.0
12		7 / 0.85	0.7	20.6	709.0	18.6	1.25	24.7	1293.0
19		7 / 0.85	0.7	24.1	1051.0	22.0	1.6	28.8	1904.0
37		7 / 0.85	0.7	32.2	1989.0	30.1	1.6	36.9	2919.0

XLPE / CT / AWA / PVC
(SINGLE CORE)

XLPE / CT / SWA / PVC
(4 CORES & 3 CORES + 3 EARTH)

SINGLE CORE

4 CORES

3 CORES
+
3 EARTH



single core

4 cores

3 cores + 3 earth

Conductor :
Insulation :
Bedding :

Screen :
Armour :
Sheath :
Colour :

Voltage Uo/U :
Conductor Stranding :

Operating Temperature :

Minimum Bending Radius :
Fire Performance :

Plain Annealed Copper
XLPE Compound
PVC Compound Type ST2 or
Lapped PVC Tape
Copper Tape
Aluminum Wire
PVC Compound Type ST2
Insulation: Natural

Sheath: Black
600 / 1000 V
Class 2 stranded circular
or compacted conductors
Maximum 90°C

12D for 70mm² to 1000mm²
IEC 60332-1

Plain Annealed Copper
XLPE Compound
PVC Compound Type ST2 or
Lapped PVC Tape
Copper Tape
Galvanised Steel Wire
PVC Compound Type ST2
Insulation: Red, Yellow, Blue &
Green/Yellow or
Brown, Black, Grey &
Green/Yellow

Sheath: Black
600 / 1000 V
Class 2 (stranded circular)
or compacted conductors
Maximum 90°C

12D for 1.5mm² to 300mm²
IEC 60332-1

Plain Annealed Copper
XLPE Compound

Copper Tape
Galvanised Steel Wire
PVC Compound Type ST2
Insulation: Red, Yellow, Blue & Green/
Yellow(x3) or Brown, Black,
Grey & Green/Yellow(x3)

Sheath: Black
600 / 1000 V
Class 2 (stranded circular)

Maximum 90°C for XLPE
Maximum 110°C for XLEVA
10D for unarmoured cable
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Table 15

Nominal Conductor Area (mm ²)	No. and Diameter of Wire (no./mm)	Radial Thickness of Insulation (mm)	Approximate Diameter				Approx. Weight (kg/km)
			Under Screen (mm)	Over Bedding (mm)	Over Armour (mm)	Over All (mm)	
70	19 / 2.14	1.1	15.2	17.6	20.1	23.9	1400
95	19 / 2.52	1.1	17.1	19.5	22.0	25.8	1700
120	37 / 2.03	1.2	19.0	20.8	24.0	27.8	2000
150	37 / 2.25	1.4	21.0	22.8	26.0	29.8	2400
185	37 / 2.52	1.6	23.2	25.0	28.2	32.0	2800
240	61 / 2.25	1.7	26.1	27.9	31.1	35.1	3500
300	61 / 2.52	1.8	28.7	30.5	33.7	37.9	4200
400	61 / 2.85	2.0	32.5	34.3	38.3	42.7	5400
500	61 / 3.20	2.2	36.0	37.8	41.8	46.4	6500
630	127 / 2.52	2.4	40.4	42.2	46.2	51.0	8200
800	127 / 2.85	2.6	45.5	47.3	52.3	57.5	10400
1000	127 / 3.20	2.8	50.4	52.2	57.2	62.4	13000

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Table 16

Nominal Conductor Area (mm ²)	No. and Diameter of Wire (no./mm)	Radial Thickness of Insulation (mm)	Approximate Diameter				Approx. Weight (kg/km)
			Under Screen (mm)	Over Bedding (mm)	Over Armour (mm)	Over All (mm)	
4 x 1.5	7 / 0.53	0.7	9.7	12.1	13.9	17.7	640
4 x 2.5	7 / 0.67	0.7	10.7	13.1	14.9	18.7	730
4 x 4	7 / 0.85	0.7	12.0	14.4	16.2	20.0	870
4 x 6	7 / 1.04	0.7	13.4	15.8	18.3	22.1	1180
4 x 10	7 / 1.35	0.7	15.6	18.0	20.5	24.3	1490
4 x 16	7 / 1.70	0.7	18.1	20.5	23.7	27.5	2070
4 x 25	7 / 2.14	0.9	22.3	24.1	27.3	31.1	2790
4 x 35 (S)	7 / 2.52	0.9	25.0	26.8	30.0	33.8	2940
4 x 50 (S)	19 / 1.78	1.0	27.8	29.6	32.8	37.0	3500
4 x 70 (S)	19 / 2.14	1.1	31.6	33.4	37.4	42.0	5000
4 x 95 (S)	19 / 2.52	1.1	35.4	37.2	41.2	46.0	6300
4 x 120 (S)	37 / 2.03	1.2	39.0	40.8	45.8	51.0	8200
4 x 150 (S)	37 / 2.25	1.4	42.0	43.8	48.8	54.2	9600
4 x 185 (S)	37 / 2.52	1.6	47.8	49.6	54.6	60.4	11500
4 x 240 (S)	61 / 2.25	1.7	54.0	55.8	60.8	67.0	14400
4 x 300 (S)	61 / 2.52	1.8	58.0	59.8	64.8	71.4	17200

Note: (S) - Sectoral Stranded Conductors.

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Table 17

Nominal Conductor Area (mm ²)	No. and Diameter of Wire (no./mm)	Combined Earth Size (mm)	Radial Thickness of Insulation (mm)	Radial Thickness of Sheath (mm)	Unarmoured	
					Cable Overall Diameter (mm)	Approx. Weight (kg/km)
3 x 1.5	7 / 0.53	4.5 (3 x 1.5)	0.7	1.8	13.6	325
3 x 2.5	7 / 0.67	4.5 (3 x 1.5)	0.7	1.8	14.8	380
3 x 4	7 / 0.85	4.5 (3 x 1.5)	0.7	1.8	15.8	440
3 x 6	7 / 1.04	7.5 (3 x 2.5)	0.7	1.8	16.9	550
3 x 10	7 / 1.35	12 (3 x 4)	0.7	1.8	18.6	750
3 x 16	7 / 1.70	18 (3 x 6)	0.7	1.8	20.8	1000
3 x 25	7 / 2.14	30 (3 x 10)	0.9	1.8	24.0	1470
3 x 35	7 / 2.52	30 (3 x 10)	0.9	1.8	25.6	1890
3 x 50	19 / 1.78	30 (3 x 10)	1.0	1.9	31.1	2300
3 x 70	19 / 2.14	48 (3 x 16)	1.1	2.0	34.6	3200
3 x 95	19 / 2.52	48 (3 x 16)	1.1	2.2	39.3	4200
3 x 120	37 / 2.03	75 (3 x 25)	1.2	2.3	44.0	5400
3 x 150	37 / 2.25	75 (3 x 25)	1.4	2.5	49.0	6400
3 x 185	37 / 2.52	105 (3 x 35)	1.6	2.6	54.0	7900
3 x 240	61 / 2.25	150 (3 x 50)	1.7	2.8	61.0	10200
3 x 300	61 / 2.52	150 (3 x 50)	1.8	3.0	67.0	12300