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600/1000V, PVC Insulated and Lead Sheathed Cables according to IEC 60502-1

Applications

These cables are used for electricity supply in low voltage installation system, They are suitable for installation in indoors and outdoors, in cable ducts, under ground, in power and switching stations, local energy distributions, industrial plants, where there is no risk of mechanical damage. The lead sheath brings an enhanced resistance to aromatic hydrocarbons.

Construction

Conductors

The conductors shall be either of Class 1 or Class 2 of plain or metal-coated annealed copper or of plain aluminium or aluminium alloy, or of Class 5 of plain or metal-coated copper in accordance with IEC 60228.

Insulation

PVC Insulation material and thickness shall be as per IEC 60502-1, PVC material shall be Type A as per IEC 60502-1.

Colour Code

Colour Code (1)

1 Core	Red or Black
2 Cores	Red, Black
3 Cores	Red, Yellow, Blue
4 Cores	Red, Yellow, Blue, Black
5 Cores	Red, Yellow, Blue, Black, Green
Above 5 Cores	Black Cores with White numerals



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Colour Code (2)

1 Core	Brown or Blue
2 Cores	Brown, Blue
3 Cores	Brown, Black, Grey
4 Cores	Blue, Brown, Black, Grey
5 Cores	Green/Yellow, Blue, Brown, Black, Grey
Above 5 Cores	Black Cores with White numerals

Other colours can be manufactured upon request.

Assembly / Inner Covering

The inner coverings may be extruded or lapped. For cables with circular cores, except cables with more than five cores, a lapped inner covering shall be permitted only if the interstices between the cores are substantially filled. A suitable binder is permitted before application of an extruded inner covering. The materials used for inner coverings and fillers shall be suitable for the operating temperature of the cable and compatible with the insulating material. For halogen free cables, the inner covering and fillers shall also be halogen free compound.

Lead Sheath

lead or lead alloy and shall be applied as a reasonably tight-fitting seamless tube.

Seperation Sheath

The separation sheath shall be of extruded PVC Type ST2 as per IEC 60502-1, or other material refer to outer sheath material.

Armour

Aluminum/galvanized steel/steel wires applied helically over the Inner Covering as per IEC 60502-1, or double aluminum/steel tapes and copper/tinned copper wire can also be manufactured upon request.

Outer Sheath

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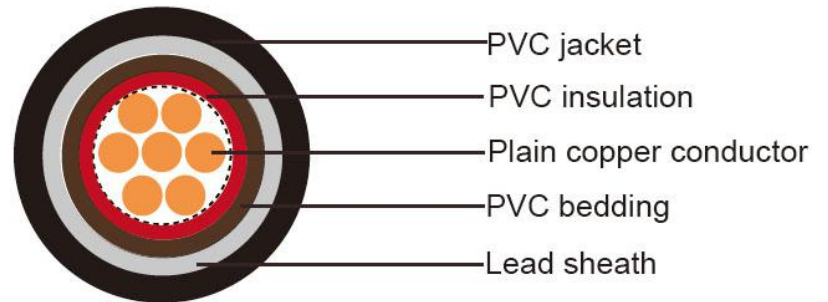
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Outer sheath shall be of extruded PVC Type ST1/ST2 as per IEC 60502-1, Polyethylene type ST3/ST7, Halogen free compound ST8, Polychloroprene, chlorosulfonated polyethylene or similar polymers, type SE1 are also available on request.

Cable Parameters

Single core (unarmoured)



Nominal Cross Section	Diameter of Conductor (Approx.)	Nominal Insulation Thickness	Nominal Inner Covering Thickness	Nominal Lead Sheath Thickness	Nominal Sheath Thickness	Overall Diameter (Approx.)
mm ²	mm	mm	mm	mm	mm	mm
1x10	3.6	1.0	1.0	1.2	1.4	12.8
1x16	4.5	1.0	1.0	1.2	1.4	13.7
1x25	5.6	1.2	1.0	1.2	1.4	15.3
1x35	6.7	1.2	1.0	1.2	1.5	16.4
1x50	8	1.4	1.0	1.2	1.5	18.3
1x70	9.4	1.4	1.0	1.2	1.6	19.8
1x95	11	1.6	1.0	1.3	1.7	22.1
1x120	12.4	1.6	1.0	1.3	1.7	23.7
1x150	13.8	1.8	1.0	1.4	1.8	25.7
1x185	15.3	2.0	1.0	1.4	1.8	27.9

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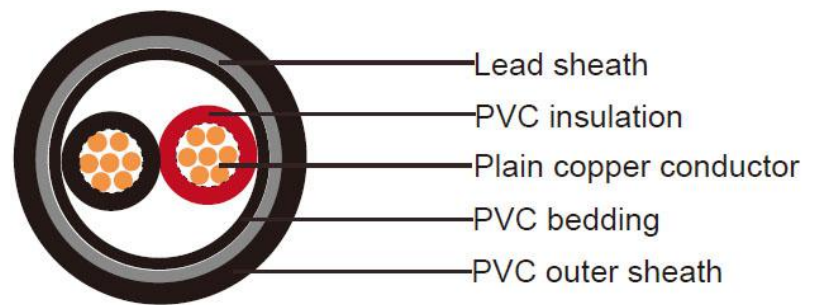
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1x240	17.5	2.2	1.0	1.5	1.9	30.8
1x300	19.5	2.4	1.0	1.6	2.0	33.5
1x400	22.6	2.6	1.2	1.7	2.2	38.0
1x500	25.2	2.8	1.2	1.8	2.3	41.4
1x630	28.3	2.8	1.2	1.9	2.4	44.9

Two cores (unarmoured)



Nominal Cross Section	Diameter of Conductor (Approx.)	Nominal Insulation Thickness	Nominal Inner Covering Thickness	Nominal Lead Sheath Thickness	Nominal Sheath Thickness	Overall Diameter (Approx.)
mm ²	mm	mm	mm	mm	mm	mm
2x2.5	1.8	0.8	1.0	1.2	1.8	14.8
2x4	2.3	1.0	1.0	1.2	1.8	16.6
2x6	2.8	1.0	1.0	1.2	1.8	17.6
2x10	3.6	1.0	1.0	1.2	1.8	19.2
2x16	4.5	1.0	1.0	1.2	1.8	21.0
2x25	5.6	1.2	1.0	1.2	1.8	24.1
2x35	6.7	1.2	1.0	1.3	1.8	26.4
2x50	8	1.4	1.0	1.4	1.9	30.3
2x70	9.4	1.4	1.0	1.5	2.0	33.4

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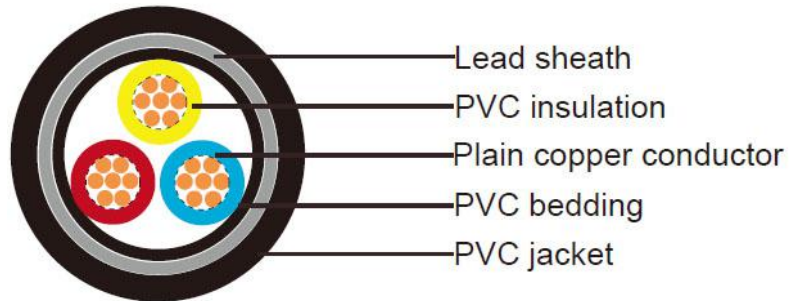
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2x95	11	1.6	1.2	1.6	2.2	38.4
2x120	12.4	1.6	1.2	1.7	2.3	41.6
2x150	13.8	1.8	1.2	1.8	2.4	45.7
2x185	15.3	2.0	1.4	1.9	2.6	50.5
2x240	17.5	2.2	1.4	2.1	2.8	56.4
2x300	19.5	2.4	1.6	2.3	3.0	62.2

Three cores (unarmoured)



Nominal Cross Section	Diameter of Conductor (Approx.)	Nominal Insulation Thickness	Nominal Inner Covering Thickness	Nominal Lead Sheath Thickness	Nominal Sheath Thickness	Overall Diameter (Approx.)
mm ²	mm	mm	mm	mm	mm	mm
3x1.5	1.4	0.8	1.0	1.2	1.8	14.5
3x2.5	1.8	0.8	1.0	1.2	1.8	15.3
3x4	2.3	1.0	1.0	1.2	1.8	17.3
3x6	2.8	1.0	1.0	1.2	1.8	18.3
3x10	3.6	1.0	1.0	1.2	1.8	20.1
3x16	4.5	1.0	1.0	1.2	1.8	22.0
3x25	5.6	1.2	1.0	1.3	1.8	25.4
3x35	6.7	1.2	1.0	1.3	1.9	28.0

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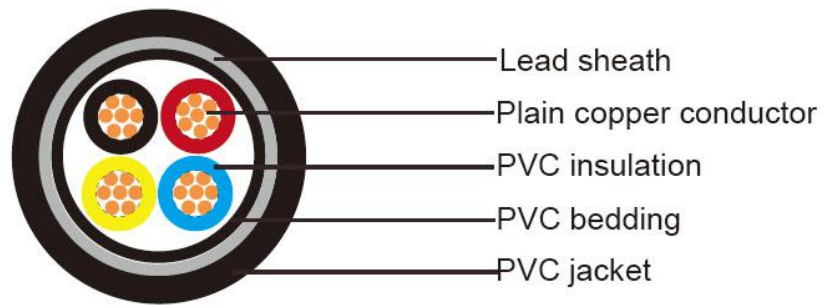
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3x50	8	1.4	1.0	1.5	2.0	32.2
3x70	9.4	1.4	1.2	1.6	2.1	36.0
3x95	11	1.6	1.2	1.7	2.3	40.9
3x120	12.4	1.6	1.2	1.8	2.4	44.3
3x150	13.8	1.8	1.4	1.9	2.5	49.2
3x185	15.3	2.0	1.4	2.0	2.7	53.8
3x240	17.5	2.2	1.6	2.2	2.9	60.6
3x300	19.5	2.4	1.6	2.4	3.1	66.5

Four cores (unarmoured)



Nominal Cross Section	Diameter of Conductor (Approx.)	Nominal Insulation Thickness	Nominal Inner Covering Thickness	Nominal Lead Sheath Thickness	Nominal Sheath Thickness	Overall Diameter (Approx.)
mm ²	mm	mm	mm	mm	mm	mm
4x1.5	1.4	1.0	1.0	1.2	1.8	15.2
4x2.5	1.8	1.0	1.0	1.2	1.8	16.2
4x4	2.3	1.0	1.0	1.2	1.8	18.4
4x6	2.8	1.0	1.0	1.2	1.8	19.6
4x10	3.6	1.0	1.0	1.2	1.8	21.5
4x16	4.5	1.0	1.0	1.2	1.8	23.8

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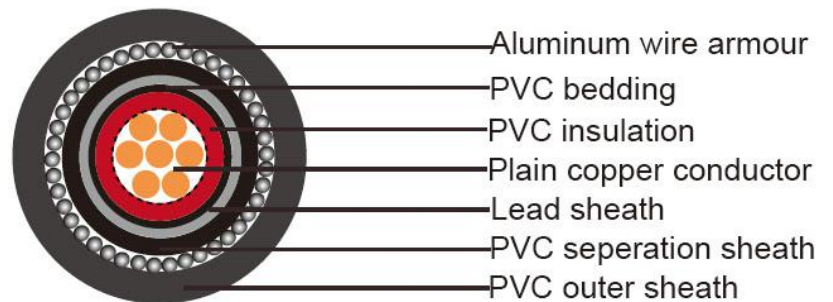
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4x25	5.6	1.0	1.0	1.3	1.8	27.7
4x35	6.7	1.0	1.0	1.4	1.9	30.7
4x50	8	1.2	1.2	1.6	2.1	35.8
4x70	9.4	1.2	1.2	1.7	2.2	39.6
4x95	11	1.2	1.2	1.8	2.4	45.1
4x120	12.4	1.4	1.4	1.9	2.6	49.4
4x150	13.8	1.4	1.4	2.0	2.7	54.3
4x185	15.3	1.6	1.6	2.2	2.9	60.0
4x240	17.5	1.6	1.6	2.4	3.1	67.1
4x300	19.5	1.6	1.6	2.6	3.3	73.7

Single core (aluminum wire armoured)



Nominal Cross Section	Diameter of Conductor (Approx.)	Nominal Insulation Thickness	Nominal Inner Covering Thickness	Nominal Lead Sheath Thickness	Nominal Separation Thickness	Nominal dia. of Aluminum wire armour	Nominal Sheath Thickness	Overall Diameter (Approx.)
mm ²	mm	mm	mm	mm	mm	mm	mm	Kg/Km
1x35	6.7	1.2	1.0	1.2	1.0	1.6	1.8	22.0
1x50	8	1.4	1.0	1.2	1.0	1.6	1.8	23.8
1x70	9.4	1.4	1.0	1.2	1.0	1.6	1.8	25.3
1x95	11	1.6	1.0	1.3	1.0	1.6	1.8	27.6

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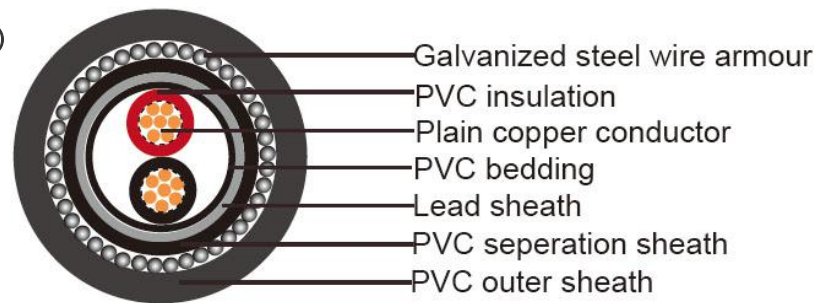
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1x120	12.4	1.6	1.0	1.3	1.0	1.6	1.9	29.2
1x150	13.8	1.8	1.0	1.4	1.0	1.6	2.0	31.4
1x185	15.3	2.0	1.0	1.4	1.1	2.0	1.9	29.1
1x240	17.5	2.2	1.0	1.5	1.1	2.0	2.0	31.9
1x300	19.5	2.4	1.0	1.6	1.2	2.0	2.1	34.4
1x400	22.6	2.6	1.2	1.7	1.3	2.5	2.2	39.7
1x500	25.2	2.8	1.2	1.8	1.3	2.5	2.3	42.9
1x630	28.3	2.8	1.2	1.9	1.4	2.5	2.4	46.2

Two cores (Galvanized steel wire armoured)



Nominal Cross Section	Diameter of Conductor (Approx.)	Nominal Insulation Thickness	Nominal Inner Covering Thickness	Nominal Lead Sheath Thickness	Nominal Separation Thickness	Nominal dia. of Steel wire armour	Nominal Sheath Thickness	Overall Diameter (Approx.)
mm ²	mm	mm	mm	mm	mm	mm	mm	Kg/Km
2x2.5	1.8	0.8	1.0	1.2	1.0	1.25	1.8	14.9
2x4	2.3	1.0	1.0	1.2	1.0	1.25	1.8	16.7
2x6	2.8	1.0	1.0	1.2	1.0	1.6	1.8	18.4
2x10	3.6	1.0	1.0	1.2	1.0	1.6	1.8	20.0
2x16	4.5	1.0	1.0	1.2	1.0	1.6	1.8	21.8
2x25	5.6	1.2	1.0	1.2	1.0	1.6	1.8	24.8

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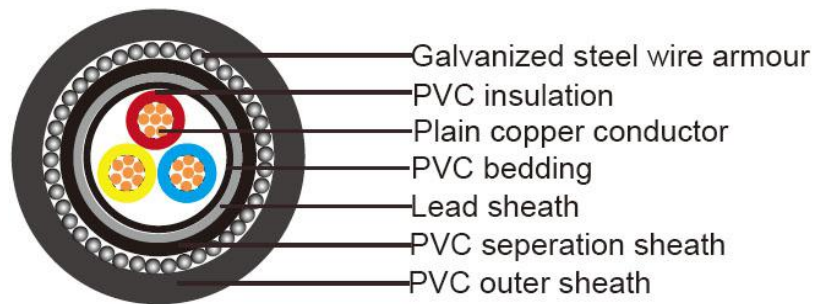
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2x35	6.7	1.2	1.0	1.3	1.1	1.6	1.8	27.0
2x50	8	1.4	1.0	1.4	1.1	2.0	2.0	31.5
2x70	9.4	1.4	1.0	1.5	1.2	2.0	2.1	34.5
2x95	11	1.6	1.2	1.6	1.3	2.5	2.3	40.3
2x120	12.4	1.6	1.2	1.7	1.3	2.5	2.4	43.3
2x150	13.8	1.8	1.2	1.8	1.4	2.5	2.5	47.2
2x185	15.3	2.0	1.4	1.9	1.5	2.5	2.6	51.6
2x240	17.5	2.2	1.4	2.1	1.6	2.5	2.8	57.2
2x300	19.5	2.4	1.6	2.3	1.7	2.5	3.0	62.8

Three cores (Galvanized steel wire armoured)



Nominal Cross Section	Diameter of Conductor (Approx.)	Nominal Insulation Thickness	Nominal Inner Covering Thickness	Nominal Lead Sheath Thickness	Nominal Separation Thickness	Nominal dia. of Steel wire armour	Nominal Sheath Thickness	Overall Diameter (Approx.)
mm ²	mm	mm	mm	mm	mm	mm	mm	Kg/Km
3x1.5	1.4	0.8	1.0	1.2	1.0	1.25	1.8	14.6
3x2.5	1.8	0.8	1.0	1.2	1.0	1.25	1.8	15.4
3x4	2.3	1.0	1.0	1.2	1.0	1.6	1.8	18.1
3x6	2.8	1.0	1.0	1.2	1.0	1.6	1.8	19.1
3x10	3.6	1.0	1.0	1.2	1.0	1.6	1.8	20.9

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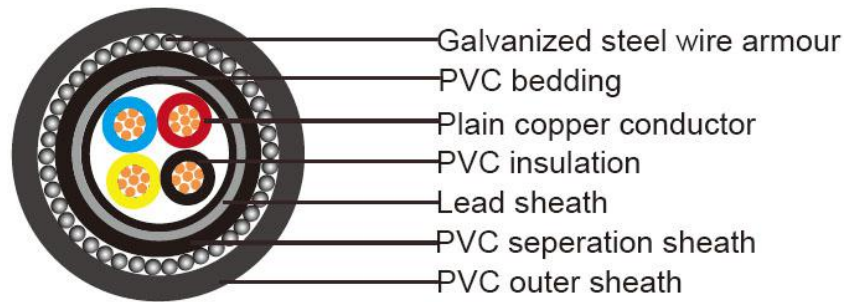
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3x16	4.5	1.0	1.0	1.2	1.0	1.6	1.8	22.8
3x25	5.6	1.2	1.0	1.3	1.0	1.6	1.8	26.0
3x35	6.7	1.2	1.0	1.3	1.1	2.0	1.9	29.4
3x50	8	1.4	1.0	1.5	1.2	2.0	2.0	33.3
3x70	9.4	1.4	1.2	1.6	1.2	2.0	2.1	37.0
3x95	11	1.6	1.2	1.7	1.3	2.5	2.3	42.6
3x120	12.4	1.6	1.2	1.8	1.4	2.5	2.4	45.9
3x150	13.8	1.8	1.4	1.9	1.5	2.5	2.6	50.4
3x185	15.3	2.0	1.4	2.0	1.6	2.5	2.7	54.8
3x240	17.5	2.2	1.6	2.2	1.7	2.5	2.9	61.2
3x300	19.5	2.4	1.6	2.4	1.8	3.15	3.2	68.2

Four cores (Galvanized steel wire armoured)



Nominal Cross Section	Diameter of Conductor (Approx.)	Nominal Insulation Thickness	Nominal Inner Covering Thickness	Nominal Lead Sheath Thickness	Nominal Separation Thickness	Nominal dia. of Steel wire armour	Nominal Sheath Thickness	Overall Diameter (Approx.)
mm ²	mm	mm	mm	mm	mm	mm	mm	Kg/Km
4x1.5	1.4	0.8	1.0	1.2	1.0	1.25	1.8	15.3
4x2.5	1.8	0.8	1.0	1.2	1.0	1.25	1.8	16.3
4x4	2.3	1.0	1.0	1.2	1.0	1.6	1.8	19.2



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4x6	2.8	1.0	1.0	1.2	1.0	1.6	1.8	20.4
4x10	3.6	1.0	1.0	1.2	1.0	1.6	1.8	22.3
4x16	4.5	1.0	1.0	1.2	1.0	1.6	1.8	24.5
4x25	5.6	1.2	1.0	1.3	1.1	2.0	1.9	29.1
4x35	6.7	1.2	1.0	1.4	1.1	2.0	2.0	31.9
4x50	8	1.4	1.2	1.6	1.2	2.0	2.1	36.7
4x70	9.4	1.4	1.2	1.7	1.3	2.5	2.3	41.4
4x95	11	1.6	1.2	1.8	1.4	2.5	2.5	46.6
4x120	12.4	1.6	1.4	1.9	1.5	2.5	2.6	50.6
4x150	13.8	1.8	1.4	2.0	1.6	2.5	2.7	55.3
4x185	15.3	2.0	1.6	2.2	1.7	2.5	2.9	60.6
4x240	17.5	2.2	1.6	2.4	1.8	3.15	3.2	68.7
4x300	19.5	2.4	1.6	2.6	1.9	3.15	3.4	74.9