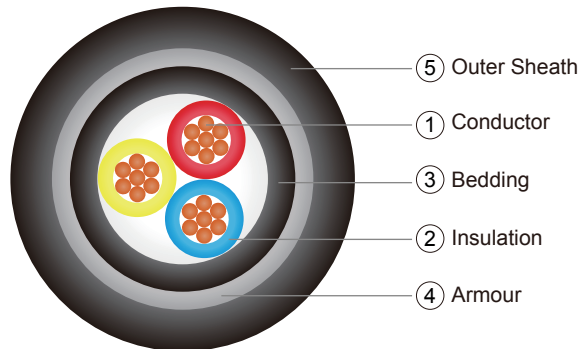


CU/XLPE/PVC/DSTA/PVC (2 Cores - 5 Cores)

XLPE Insulated, PVC Bedded, Double Steel Tape Armoured, PVC Sheathed Cable

Application

These power cable for fixed installations such as distribution networks or industrial installations. Such as Plant engineering; Industrial machinery; Heating and air-conditioning systems; Power stations; Stage applications etc. Armoured cable suitable for direct burial.



Construction

① Conductor: Plain Annealed Copper, class1 solid or class 2 stranded as per IEC 60228. Flexible class 5 or tinned conductor could be offer upon request.

② Insulation: Cross-linked polyethylene (XLPE) compound as per IEC 60502-1. Insulation Colour:

Number of Cores	Color Code to IEC 60502-1	Color Code to BS 5467
2	Red & Black	Brown & Blue
3	Red, Yellow and Blue	Brown, Black and Grey
4	Red, Yellow, Blue and Black	Blue, Brown, Black and Grey
5	Red, Yellow, Blue, Black and Green / Yellow	Green / Yellow, Blue, Brown, Black and Grey

Assembly: Cores cabled together with PP filler and covered with non-woven tape.

③ Bedding: Polyvinyl chloride (PVC) compound type ST1 (80°C), ST2 (90°C) of IEC 60502-1. Bedding Color: Black or other color as per customer request.

④ Armour: Double steel tape armoured (DSTA).

⑤ Outer Sheath: Polyvinyl chloride (PVC) compound type ST1 (80°C), ST2 (90°C) of IEC 60502-1. Outer Sheath Colour: Black or other color as per customer request.

Electrical Characteristics

Recommended rated voltages U_0

Highest system voltage (U_m) (kV)	Rated voltage (U_0) (kV)	
	Categories A and B	Category C
1,2	0,6	0,6

Routine test voltages

Rated voltage U_0 (kV)	0,6
Test voltage (kV)	3,5

Maximum conductor temperatures for different types of insulating compound

Maximum conductor temperature (°C)	
Normal operation	Short-circuit (5 s maximum duration)
90	250

Operating Temperature: -15°C to 90°C

Test Voltage: 3.5 kV for 5 minutes

Installation Reference

Min.Bending Radius (mm): 8 x cable overall diameter

Max.Pulling Tension (N/mm²): 70

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Reference Standards

Design Specification: IEC60502-1

Conductor: IEC60228, BS EN60228

Flame Retardancy: IEC60332-1, BS EN60332-1

Dimension

2 Cores

Nominal Conductor Area (mm ²)	No. and Diameter of Wires (no./mm)	Thickness of Insulation (mm)	Thickness of Bedding (mm)	Thickness of Armour Tape (mm)	Thickness of Sheath (mm)	Overall Diameter (mm)	Approximate Weight (kg/km)
2X1.5	7/0.53	0.7	1.0	0.2	1.8	12.4	259
2X2.5	7/0.67	0.7	1.0	0.2	1.8	13.2	300
2X4	7/0.85	0.7	1.0	0.2	1.8	14.3	359
2X6	7/1.04	0.7	1.0	0.2	1.8	15.4	430
2X10	7/1.35	0.7	1.0	0.2	1.8	17.3	563
2X16	7/1.70	0.7	1.0	0.0	1.8	18.7	593
2X25	7/2.14	0.9	1.0	0.2	1.8	22.8	1029
2X35	7/2.52	0.9	1.0	0.2	1.8	25.1	1290
2X50	19/1.78	1.0	1.0	0.2	1.8	28.2	1634
2X70	19/2.14	1.1	1.2	0.2	2.0	33.0	2251
2X95	19/2.52	1.1	1.2	0.5	2.1	38.2	3438
2X120	37/2.03	1.2	1.2	0.5	2.3	42.2	4166
2X150	37/2.25	1.4	1.4	0.5	2.4	46.7	5008
2X185	37/2.52	1.6	1.4	0.5	2.6	51.7	6075
2X240	61/2.25	1.7	1.6	0.5	2.8	58.1	7684
2X300	61/2.52	1.8	1.6	0.5	3.0	63.8	9305
2x400	61/2.85	2.0	1.6	0.5	3.2	70.9	11515
2x500	61/3.20	2.2	1.8	0.5	3.5	79.0	14235
2x630	127/2.52	2.4	1.8	0.8	3.8	89.5	19094
2x800	127/2.85	2.6	2.0	0.8	4.2	100.1	23792
2x1000	127/3.20	2.8	2.0	0.8	4.5	110.6	29129

3 Cores

Nominal Conductor Area (mm ²)	No. and Diameter of Wires (no./mm)	Thickness of Insulation (mm)	Thickness of Bedding (mm)	Thickness of Armour Tape (mm)	Thickness of Sheath (mm)	Overall Diameter (mm)	Approximate Weight (kg/km)
3X1.5	7/0.53	0.7	1.0	0.2	1.8	12.8	291
3X2.5	7/0.67	0.7	1.0	0.2	1.8	13.7	344
3X4	7/0.85	0.7	1.0	0.2	1.8	14.9	423
3X6	7/1.04	0.7	1.0	0.2	1.8	16.1	517
3X10	7/1.35	0.7	1.0	0.2	1.8	18.1	697
3X16	7/1.70	0.7	1.0	0.2	1.8	20.4	939
3X25	7/2.14	0.9	1.0	0.2	1.8	24.1	1340
3X35	7/2.52	0.9	1.0	0.2	1.8	26.6	1709
3X50	19/1.78	1.0	1.0	0.2	1.9	30.1	2207
3X70	19/2.14	1.1	1.2	0.5	2.1	36.4	3551
3X95	19/2.52	1.1	1.2	0.5	2.2	40.7	4574
3X120	37/2.03	1.2	1.4	0.5	2.4	45.4	5640
3X150	37/2.25	1.4	1.4	0.5	2.5	49.8	6746
3X185	37/2.52	1.6	1.4	0.5	2.7	55.1	8241
3X240	61/2.25	1.7	1.6	0.5	2.9	61.9	10496
3X300	61/2.52	1.8	1.6	0.5	3.1	68.0	12797
3X400	61/2.85	2.0	1.8	0.5	3.4	76.3	16070
3x500	61/3.20	2.2	1.8	0.8	3.7	85.7	21023
3x630	127/2.52	2.4	2.0	0.8	4.0	96.1	26462
3x800	127/2.85	2.6	2.0	0.8	4.4	107.0	33001
3x1000	127/3.20	2.8	2.0	0.8	4.8	118.5	40706

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4 Cores

Nominal Conductor Area (mm ²)	No. and Diameter of Wires (no./mm)	Thickness of Insulation (mm)	Thickness of Bedding (mm)	Thickness of Armour Tape (mm)	Thickness of Sheath (mm)	Overall Diameter (mm)	Approximate Weight (kg/km)
4x1.5	7/0.53	0.7	1.0	0.2	1.8	13.6	331
4x2.5	7/0.67	0.7	1.0	0.2	1.8	14.6	398
4x4	7/0.85	0.7	1.0	0.2	1.8	15.9	496
4x6	7/1.04	0.7	1.0	0.2	1.8	17.3	616
4x10	7/1.35	0.7	1.0	0.2	1.8	19.6	845
4x16	7/1.70	0.7	1.0	0.2	1.8	22.1	1157
4x25	7/2.14	0.9	1.0	0.2	1.8	26.2	1672
4x35	7/2.52	0.9	1.0	0.2	1.8	29.0	2151
4x50	19/1.78	1.0	1.2	0.2	2.0	33.5	2848
4x70	19/2.14	1.1	1.2	0.5	2.2	39.9	4455
4x95	19/2.52	1.1	1.4	0.5	2.4	45.3	5856
4x120	37/2.03	1.2	1.4	0.5	2.5	49.9	7144
4x150	37/2.25	1.4	1.4	0.5	2.7	55.0	8604
4x185	37/2.52	1.6	1.6	0.5	2.9	61.3	10613
4x240	61/2.25	1.7	1.6	0.5	3.1	68.5	13467
4x300	61/2.52	1.8	1.8	0.5	3.4	75.8	16591
4x400	61/2.85	2.0	1.8	0.8	3.7	85.8	21952
4x500	61/3.20	2.2	2.0	0.8	4.0	95.3	27111
4x630	127/2.52	2.4	2.0	0.8	4.4	106.7	34129
4x800	127/2.85	2.6	2.0	0.8	4.8	118.8	42672
4x1000	127/3.20	2.8	2.0	0.8	5.2	131.5	52752

5 Cores

Nominal Conductor Area (mm ²)	No. and Diameter of Wires (no./mm)	Thickness of Insulation (mm)	Thickness of Bedding (mm)	Thickness of Armour Tape (mm)	Thickness of Sheath (mm)	Overall Diameter (mm)	Approximate Weight (kg/km)
5x1.5	7/0.53	0.7	1.0	0.2	1.8	14.5	373
5x2.5	7/0.67	0.7	1.0	0.2	1.8	15.6	453
5x4	7/0.85	0.7	1.0	0.2	1.8	17.1	572
5x6	7/1.04	0.7	1.0	0.2	1.8	18.6	717
5x10	7/1.35	0.7	1.0	0.2	1.8	21.1	997
5x16	7/1.70	0.7	1.0	0.2	1.8	24.0	1378
5x25	7/2.14	0.9	1.0	0.2	1.8	28.6	2009
5x35	7/2.52	0.9	1.2	0.2	1.9	32.3	2651
5x50	19/1.78	1.0	1.2	0.5	2.1	38.0	3978
5x70	19/2.14	1.1	1.2	0.5	2.3	43.8	5377
5x95	19/2.52	1.1	1.4	0.5	2.5	49.8	7090
5x120	37/2.03	1.2	1.4	0.5	2.7	55.0	8700
5x150	37/2.25	1.4	1.6	0.5	2.9	61.1	10565
5x185	37/2.52	1.6	1.6	0.5	3.1	67.7	12959
5x240	61/2.25	1.7	1.8	0.5	3.4	76.3	16605
5x300	61/2.52	1.8	1.8	0.8	3.7	85.2	21546
5x400	61/2.85	2.0	2.0	0.8	4.0	95.3	26948
5x500	61/3.20	2.2	2.0	0.8	4.3	105.4	33189
5x630	127/2.52	2.4	2.0	0.8	4.8	118.2	41911
5x800	127/2.85	2.6	2.0	0.8	5.2	131.7	52473
5x1000	127/3.20	2.8	2.0	0.8	5.7	146.0	65020