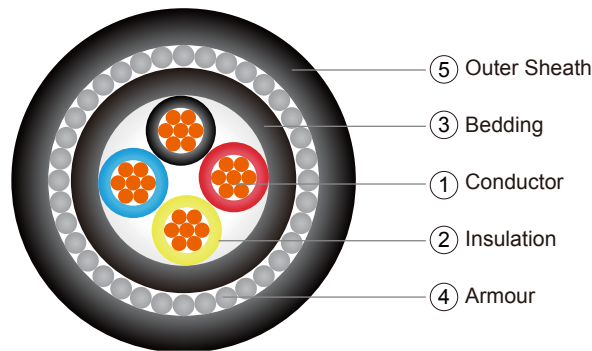


CU/XLPE/PVC/SWA/PVC (2 Cores - 5 Cores)

XLPE Insulated, PVC Bedded, Galvanised Steel Wire 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 IEC60228. 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: Galvanized steel wire armoured (SWA).
- 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)	Diameter of Armour Wire (mm)	Thickness of Sheath (mm)	Overall Diameter (mm)	Approximate Weight (kg/km)
2X1.5	7/0.53	0.7	1.0	0.80	1.8	13.2	325
2X2.5	7/0.67	0.7	1.0	0.80	1.8	14.0	372
2X4	7/0.85	0.7	1.0	0.80	1.8	15.1	438
2X6	7/1.04	0.7	1.0	1.25	1.8	17.1	645
2X10	7/1.35	0.7	1.0	1.25	1.8	19.0	806
2X16	7/1.70	0.7	1.0	1.25	1.8	21.1	1015
2X25	7/2.14	0.9	1.0	1.60	1.8	25.2	1517
2X35	7/2.52	0.9	1.0	1.60	1.8	27.5	1830
2X50	19/1.78	1.0	1.0	1.60	1.9	30.8	2259
2X70	19/2.14	1.1	1.2	2.00	2.1	36.4	3249
2X95	19/2.52	1.1	1.2	2.00	2.2	40.4	4043
2X120	37/2.03	1.2	1.2	2.50	2.4	45.4	5254
2X150	37/2.25	1.4	1.4	2.50	2.5	49.9	6211
2X185	37/2.52	1.6	1.4	2.50	2.7	54.9	7403
2X240	61/2.25	1.7	1.6	2.50	2.9	61.3	9175
2X300	61/2.52	1.8	1.6	2.50	3.1	67.0	10939
2x400	61/2.85	2.0	1.6	3.15	3.4	75.6	14295
2x500	61/3.20	2.2	1.8	3.15	3.6	83.5	17282
2x630	127/2.52	2.4	1.8	3.15	3.9	92.8	21253
2x800	127/2.85	2.6	2.0	3.15	4.3	103.4	26200
2x1000	127/3.20	2.8	2.0	3.15	4.6	113.9	31788

3 Cores

Nominal Conductor Area (mm ²)	No. and Diameter of Wires (no./mm)	Thickness of Insulation (mm)	Thickness of Bedding (mm)	Diameter of Armour Wire (mm)	Thickness of Sheath (mm)	Overall Diameter (mm)	Approximate Weight (kg/km)
3X1.5	7/0.53	0.7	1.0	0.80	1.8	13.6	361
3X2.5	7/0.67	0.7	1.0	0.80	1.8	14.5	420
3X4	7/0.85	0.7	1.0	1.25	1.8	16.6	629
3X6	7/1.04	0.7	1.0	1.25	1.8	17.8	742
3X10	7/1.35	0.7	1.0	1.25	1.8	19.8	954
3X16	7/1.70	0.7	1.0	1.60	1.8	22.8	1372
3X25	7/2.14	0.9	1.0	1.60	1.8	26.5	1857
3X35	7/2.52	0.9	1.0	1.60	1.8	29.0	2281
3X50	19/1.78	1.0	1.0	2.00	2.0	33.5	3118
3X70	19/2.14	1.1	1.2	2.00	2.1	38.4	4107
3X95	19/2.52	1.1	1.20	2.00	2.3	42.9	5217
3X120	37/2.03	1.2	1.4	2.50	2.5	48.6	6808
3X150	37/2.25	1.4	1.4	2.50	2.6	53.0	8027
3X185	37/2.52	1.6	1.4	2.50	2.8	58.3	9655
3X240	61/2.25	1.7	1.6	2.50	3.0	65.1	12085
3X300	61/2.52	1.8	1.6	2.50	3.2	71.2	14540
3X400	61/2.85	2.0	1.8	3.15	3.5	80.8	19015
3x500	61/3.20	2.2	1.8	3.15	3.8	89.0	23090
3x630	127/2.52	2.4	2.0	3.15	4.1	99.4	28777
3x800	127/2.85	2.6	2.0	3.15	4.5	110.3	35573
3x1000	127/3.20	2.8	2.0	3.15	4.9	121.8	43549

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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)	Diameter of Armour Wire (mm)	Thickness of Sheath (mm)	Overall Diameter (mm)	Approximate Weight (kg/km)
4x1.5	7/0.53	0.7	1.0	0.80	1.8	14.4	406
4x2.5	7/0.67	0.7	1.0	1.25	1.8	16.3	600
4x4	7/0.85	0.7	1.0	1.25	1.8	17.6	718
4x6	7/1.04	0.7	1.0	1.25	1.8	19.0	859
4x10	7/1.35	0.7	1.0	1.60	1.8	22.0	1259
4x16	7/1.70	0.7	1.0	1.60	1.8	24.5	1628
4x25	7/2.14	0.9	1.0	1.60	1.8	28.6	2237
4x35	7/2.52	0.9	1.0	1.60	1.9	31.6	2794
4x50	19/1.78	1.0	1.2	2.00	2.1	36.9	3862
4x70	19/2.14	1.1	1.2	2.00	2.3	42.1	5086
4x95	19/2.52	1.1	1.4	2.50	2.5	48.5	7023
4x120	37/2.03	1.2	1.4	2.50	2.6	53.1	8428
4x150	37/2.25	1.4	1.4	2.50	2.8	58.2	10016
4x185	37/2.52	1.6	1.6	2.50	3.0	64.5	12185
4x240	61/2.25	1.7	1.6	3.15	3.3	73.2	16156
4x300	61/2.52	1.8	1.8	3.15	3.5	80.3	19518
4x400	61/2.85	2.0	1.8	3.15	3.8	89.1	24020
4x500	61/3.20	2.2	2.0	3.15	4.1	98.6	29408
4x630	127/2.52	2.4	2.0	3.15	4.5	110.0	36693
4x800	127/2.85	2.6	2.0	3.15	4.9	122.1	45523
4x1000	127/3.20	2.8	2.0	3.15	5.3	134.8	55907

5 Cores

Nominal Conductor Area (mm ²)	No. and Diameter of Wires (no./mm)	Thickness of Insulation (mm)	Thickness of Bedding (mm)	Diameter of Armour Wire (mm)	Thickness of Sheath (mm)	Overall Diameter (mm)	Approximate Weight (kg/km)
5x1.5	7/0.53	0.7	1.0	1.25	1.8	16.2	573
5x2.5	7/0.67	0.7	1.0	1.25	1.8	17.3	671
5x4	7/0.85	0.7	1.0	1.25	1.8	18.8	812
5x6	7/1.04	0.7	1.0	1.25	1.8	20.3	981
5x10	7/1.35	0.7	1.0	1.60	1.8	23.5	1446
5x16	7/1.70	0.7	1.0	1.60	1.8	26.4	1892
5x25	7/2.14	0.9	1.0	1.60	1.9	31.2	2644
5x35	7/2.52	0.9	1.2	2.00	2.1	35.9	3648
5x50	19/1.78	1.0	1.2	2.00	2.2	40.2	4580
5x70	19/2.14	1.1	1.2	2.50	2.4	47.0	6507
5x95	19/2.52	1.1	1.4	2.50	2.6	53.0	8370
5x120	37/2.03	1.2	1.4	2.50	2.8	58.2	10113
5x150	37/2.25	1.4	1.6	2.50	3.0	64.3	12131
5x185	37/2.52	1.6	1.6	2.50	3.2	70.9	14693
5x240	61/2.25	1.7	1.8	3.15	3.5	80.8	19549
5x300	61/2.52	1.8	1.8	3.15	3.8	88.5	23599
5x400	61/2.85	2.0	2.0	3.15	4.1	98.6	29242
5x500	61/3.20	2.2	2.0	3.15	4.4	108.7	35726
5x630	127/2.52	2.4	2.0	3.15	4.9	121.5	44748
5x800	127/2.85	2.6	2.0	3.15	5.3	135.0	55631
5x1000	127/3.20	2.8	2.0	3.15	5.8	149.3	68518