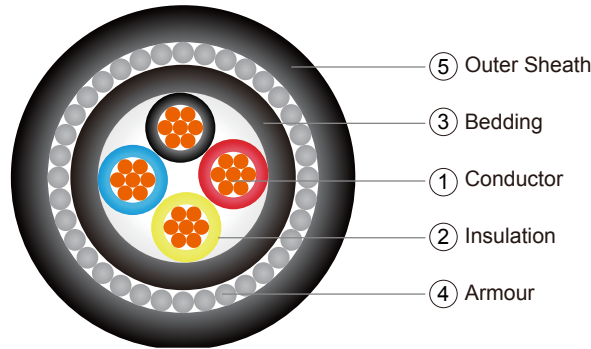


## CU/XLPE/LSZH/SWA/LSZH (2 Cores - 5 Cores)

XLPE Insulated, LSZH Bedded, Galvanised Steel Wire Armoured, LSZH 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: Low smoke zero halogen (LSZH) compound ST8 (90°C) of IEC 60502-1. Bedding Colour: Black or other color as per customer request.
- ④ Armour: Galvanized steel wire armoured (SWA).
- ⑤ Outer Sheath: Low smoke zero halogen (LSZH) compound ST8 (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

### Reference Standards

Design Specification: BS6724

Conductor: IEC60228, BS EN60228

Flame Retardancy: IEC60332-3-22, BS EN60332-3-22

Low Smoke Zero Halogen: IEC61034-2, BS EN61034-2, IEC60754-1, IEC60754-2, BS EN50267-2-1, BS EN50267-2-2

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### Installation Reference

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

Max.Pulling Tension (N/mm<sup>2</sup>): 70

### Dimension

#### 2 Cores

Nominal Conductor Area (mm <sup>2</sup> )	No.and Diameter of Wires (no./mm)	Thickness of Insulation (mm)	Diameter Under Armour (mm)	Thickness of Bending (mm)	Diameter of Armour Wire (mm)	Thickness of Sheath (mm)	Overall Diameter (mm)	Approximate Weight (kg/km)
2X1.5	7/0.53	0.7	8.0	1.0	0.80	1.8	13.2	325
2X2.5	7/0.67	0.7	8.8	1.0	0.80	1.8	14.0	372
2X4	7/0.85	0.7	9.9	1.0	0.80	1.8	15.1	438
2X6	7/1.04	0.7	11.0	1.0	1.25	1.8	17.1	645
2X10	7/1.35	0.7	12.9	1.0	1.25	1.8	19.0	806
2X16	7/1.70	0.7	15.0	1.0	1.25	1.8	21.1	1015
2X25	7/2.14	0.9	18.4	1.0	1.60	1.8	25.2	1517
2X35	7/2.52	0.9	20.7	1.0	1.60	1.8	27.5	1830
2X50	19/1.78	1.0	23.8	1.0	1.60	1.9	30.8	2259
2X70	19/2.14	1.1	28.2	1.2	2.00	2.1	36.4	3249
2X95	19/2.52	1.1	32.0	1.2	2.00	2.2	40.4	4043
2X120	37/2.03	1.2	35.6	1.2	2.50	2.4	45.4	5254
2X150	37/2.25	1.4	39.9	1.4	2.50	2.5	49.9	6211
2X185	37/2.52	1.6	44.5	1.4	2.50	2.7	54.9	7403
2X240	61/2.25	1.7	50.5	1.6	2.50	2.9	61.3	9175
2X300	61/2.52	1.8	55.8	1.6	2.50	3.1	67.0	10939
2x400	61/2.85	2.0	62.5	1.6	3.15	3.4	75.6	14295
2x500	61/3.20	2.2	70.0	1.8	3.15	3.6	83.5	17282
2x630	127/2.52	2.4	78.7	1.8	3.15	3.9	92.8	21253
2x800	127/2.85	2.6	88.5	2.0	3.15	4.3	103.4	26200
2x1000	127/3.20	2.8	98.4	2.0	3.15	4.6	113.9	31788

#### 3 Cores

Nominal Conductor Area (mm <sup>2</sup> )	No.and Diameter of Wires (no./mm)	Thickness of Insulation (mm)	Diameter Under Armour (mm)	Thickness of Bending (mm)	Diameter of Armour Wire (mm)	Thickness of Sheath (mm)	Overall Diameter (mm)	Approximate Weight (kg/km)
3X1.5	7/0.53	0.7	8.4	1.0	0.80	1.8	13.6	361
3X2.5	7/0.67	0.7	9.3	1.0	0.80	1.8	14.5	420
3X4	7/0.85	0.7	10.5	1.0	1.25	1.8	16.6	629
3X6	7/1.04	0.7	11.7	1.0	1.25	1.8	17.8	742
3X10	7/1.35	0.7	13.7	1.0	1.25	1.8	19.8	954
3X16	7/1.70	0.7	16.0	1.0	1.60	1.8	22.8	1372
3X25	7/2.14	0.9	19.7	1.0	1.60	1.8	26.5	1857
3X35	7/2.52	0.9	22.2	1.0	1.60	1.8	29.0	2281
3X50	19/1.78	1.0	25.5	1.0	2.00	2.0	33.5	3118
3X70	19/2.14	1.1	30.2	1.2	2.00	2.1	38.4	4107
3X95	19/2.52	1.1	34.3	1.2	2.00	2.3	42.9	5217
3X120	37/2.03	1.2	38.6	1.4	2.50	2.5	48.6	6808
3X150	37/2.25	1.4	42.8	1.4	2.50	2.6	53.0	8027
3X185	37/2.52	1.6	47.7	1.4	2.50	2.8	58.3	9655
3X240	61/2.25	1.7	54.1	1.6	2.50	3.0	65.1	12085
3X300	61/2.52	1.8	59.8	1.6	2.50	3.2	71.2	14540
3X400	61/2.85	2.0	67.5	1.8	3.15	3.5	80.8	19015
3x500	61/3.20	2.2	75.1	1.8	3.15	3.8	89.0	23090
3x630	127/2.52	2.4	84.9	2.0	3.15	4.1	99.4	28777
3x800	127/2.85	2.6	95.0	2.0	3.15	4.5	110.3	35573
3x1000	127/3.20	2.8	105.7	2.0	3.15	4.9	121.8	43549

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XLPE Insulated, LSZH Bedded, Galvanised Steel Wire Armoured, LSZH Sheathed Cable

#### 4 Cores

Nominal Conductor Area (mm <sup>2</sup> )	No. and Diameter of Wires (no./mm)	Thickness of Insulation (mm)	Diameter Under Armour (mm)	Thickness of Bending (mm)	Diameter of Armour Wire (mm)	Thickness of Sheath (mm)	Overall Diameter (mm)	Approximate Weight (kg/km)
4X1.5	7/0.53	0.7	9.2	1.0	0.80	1.8	14.4	406
4X2.5	7/0.67	0.7	10.2	1.0	1.25	1.8	16.3	600
4X4	7/0.85	0.7	11.5	1.0	1.25	1.8	17.6	718
4X6	7/1.04	0.7	12.9	1.0	1.25	1.8	19.0	859
4X10	7/1.35	0.7	15.2	1.0	1.60	1.8	22.0	1259
4X16	7/1.70	0.7	17.7	1.0	1.60	1.8	24.5	1628
4X25	7/2.14	0.9	21.8	1.0	1.60	1.8	28.6	2237
4X35	7/2.52	0.9	24.6	1.0	1.60	1.9	31.6	2794
4X50	19/1.78	1.0	28.7	1.2	2.00	2.1	36.9	3862
4X70	19/2.14	1.1	33.5	1.2	2.00	2.3	42.1	5086
4X95	19/2.52	1.1	38.5	1.4	2.50	2.5	48.5	7023
4X120	37/2.03	1.2	42.9	1.4	2.50	2.6	53.1	8428
4X150	37/2.25	1.4	47.6	1.4	2.50	2.8	58.2	10016
4X185	37/2.52	1.6	53.5	1.6	2.50	3.0	64.5	12185
4X240	61/2.25	1.7	60.3	1.6	3.15	3.3	73.2	16156
4X300	61/2.52	1.8	67.0	1.8	3.15	3.5	80.3	19518
4X400	61/2.85	2.0	75.2	1.8	3.15	3.8	89.1	24020
4x500	61/3.20	2.2	84.1	2.0	3.15	4.1	98.6	29408
4x630	127/2.52	2.4	94.7	2.0	3.15	4.5	110.0	36693
4x800	127/2.85	2.6	106.0	2.0	3.15	4.9	122.1	45523
4x1000	127/3.20	2.8	117.9	2.0	3.15	5.3	134.8	55907

#### 5 Cores

Nominal Conductor Area (mm <sup>2</sup> )	No. and Diameter of Wires (no./mm)	Thickness of Insulation (mm)	Diameter Under Armour (mm)	Thickness of Bending (mm)	Diameter of Armour Wire (mm)	Thickness of Sheath (mm)	Overall Diameter (mm)	Approximate Weight (kg/km)
5x1.5	7/0.53	0.7	10.1	1.0	1.25	1.8	16.2	573
5X2.5	7/0.67	0.7	11.2	1.0	1.25	1.8	17.3	671
5X4	7/0.85	0.7	12.7	1.0	1.25	1.8	18.8	812
5X6	7/1.04	0.7	14.2	1.0	1.25	1.8	20.3	981
5X10	7/1.35	0.7	16.7	1.0	1.60	1.8	23.5	1446
5X16	7/1.70	0.7	19.6	1.0	1.60	1.8	26.4	1892
5X25	7/2.14	0.9	24.2	1.0	1.60	1.9	31.2	2644
5x35	7/2.52	0.9	27.7	1.2	2.00	2.1	35.9	3648
5x50	19/1.78	1.0	31.8	1.2	2.00	2.2	40.2	4580
5x70	19/2.14	1.1	37.2	1.2	2.50	2.4	47.0	6507
5X95	19/2.52	1.1	42.8	1.4	2.50	2.6	53.0	8370
5X120	37/2.03	1.2	47.6	1.4	2.50	2.8	58.2	10113
5X150	37/2.25	1.4	53.3	1.6	2.50	3.0	64.3	12131
5X185	37/2.52	1.6	59.5	1.6	2.50	3.2	70.9	14693
5X240	61/2.25	1.7	67.5	1.8	3.15	3.5	80.8	19549
5X300	61/2.52	1.8	74.6	1.8	3.15	3.8	88.5	23599
5X400	61/2.85	2.0	84.1	2.0	3.15	4.1	98.6	29242
5x500	61/3.20	2.2	93.6	2.0	3.15	4.4	108.7	35726
5x630	127/2.52	2.4	105.4	2.0	3.15	4.9	121.5	44748
5x800	127/2.85	2.6	118.1	2.0	3.15	5.3	135.0	55631
5x1000	127/3.20	2.8	131.4	2.0	3.15	5.8	149.3	68518