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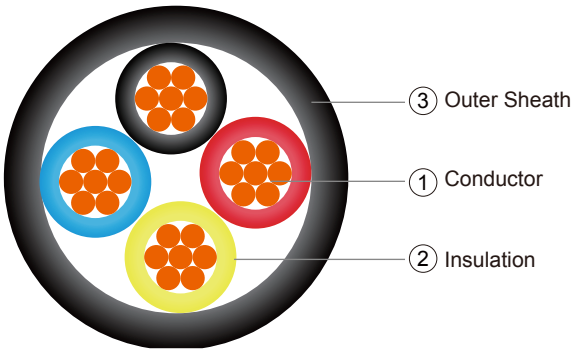
CU/XLPE/LSH (2 Cores - 5 Cores)

XLPE Insulated, 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.



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 polyethlene (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 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: IEC60502-1
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, BSEN50267-2-2

Installation Reference

Min.Bending Radius (mm): 8 x cable overall diameter
Max.Pulling Tension (N/mm^2): 50

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Dimension

2 Cores

Nominal Conductor Area (mm^2)	No.and Diameter of Wires (no./mm)	Thickness of Insulation (mm)	Thickness of Sheath (mm)	Overall Diameter (mm)	Approximate Weight (kg/km)
2x1.5	7/0.53	0.7	1.8	9.6	114
2x2.5	7/0.67	0.7	1.8	10.4	142
2x4	7/0.85	0.7	1.8	11.5	186
2x6	7/1.04	0.7	1.8	12.6	239
2x10	7/1.35	0.7	1.8	14.5	344
2x16	7/1.70	0.7	1.8	16.6	488
2x25	7/2.14	0.9	1.8	20.0	727
2x35	7/2.52	0.9	1.8	22.3	954
2x50	19/1.78	1.0	1.8	25.4	1251
2x70	19/2.14	1.1	1.9	29.6	1754
2x95	19/2.52	1.1	2.0	33.6	2362
2x120	37/2.03	1.2	2.1	37.4	2952
2x150	37/2.25	1.4	2.2	41.5	3612
2x185	37/2.52	1.6	2.4	46.5	4522
2x240	61/2.25	1.7	2.6	52.5	5873
2x300	61/2.52	1.8	2.8	58.2	7309
2x400	61/2.85	2.0	3.0	65.3	9283
2x500	61/3.20	2.2	3.3	73.0	11664
2x630	127/2.52	2.4	3.6	82.3	14965
2x800	127/2.85	2.6	3.9	92.3	19017
2x1000	127/3.20	2.8	4.3	103.0	23883

3 Cores

Nominal Conductor Area (mm^2)	No.and Diameter of Wires (no./mm)	Thickness of Insulation (mm)	Thickness of Sheath (mm)	Overall Diameter (mm)	Approximate Weight (kg/km)
3x1.5	7/0.53	0.7	1.8	10.0	139
3x2.5	7/0.67	0.7	1.8	10.9	179
3x4	7/0.85	0.7	1.8	12.1	240
3x6	7/1.04	0.7	1.8	13.3	316
3x10	7/1.35	0.7	1.8	15.3	466
3x16	7/1.70	0.7	1.8	17.6	674
3x25	7/2.14	0.9	1.8	21.3	1019
3x35	7/2.52	0.9	1.8	23.8	1350
3x50	19/1.78	1.0	1.8	27.1	1784
3x70	19/2.14	1.1	1.9	31.6	2516
3x95	19/2.52	1.1	2.1	36.1	3424
3x120	37/2.03	1.2	2.2	40.2	4287
3x150	37/2.25	1.4	2.3	44.6	5253
3x185	37/2.52	1.6	2.5	49.9	6579
3x240	61/2.25	1.7	2.7	56.3	8558
3x300	61/2.52	1.8	2.9	62.4	10660
3x400	61/2.85	2.0	3.2	70.3	13592
3x500	61/3.20	2.2	3.5	78.5	17079
3x630	127/2.52	2.4	3.8	88.5	21925
3x800	127/2.85	2.6	4.1	99.2	27882
3x1000	127/3.20	2.8	4.5	110.7	35021

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4 Cores

Nominal Conductor Area (mm^2)	No.and Diameter of Wires (no./mm)	Thickness of Insulation (mm)	Thickness of Sheath (mm)	Overall Diameter (mm)	Approximate Weight (kg/km)
4x1.5	7/0.53	0.7	1.8	10.8	168
4x2.5	7/0.67	0.7	1.8	11.8	219
4x4	7/0.85	0.7	1.8	13.1	298
4x6	7/1.04	0.7	1.8	14.5	397
4x10	7/1.35	0.7	1.8	16.8	593
4x16	7/1.70	0.7	1.8	19.3	866
4x25	7/2.14	0.9	1.8	23.4	1319
4x35	7/2.52	0.9	1.8	26.2	1756
4x50	19/1.78	1.0	1.9	30.1	2342
4x70	19/2.14	1.1	2.0	35.1	3310
4x95	19/2.52	1.1	2.2	40.1	4506
4x120	37/2.03	1.2	2.4	44.9	5668
4x150	37/2.25	1.4	2.5	49.8	6946
4x185	37/2.52	1.6	2.7	55.7	8696
4x240	61/2.25	1.7	2.9	62.9	11313
4x300	61/2.52	1.8	3.2	69.8	14127
4x400	61/2.85	2.0	3.5	78.6	18004
4x500	61/3.20	2.2	3.8	87.7	22614
4x630	127/2.52	2.4	4.1	98.9	29028
4x800	127/2.85	2.6	4.5	111.0	36970
4x1000	127/3.20	2.8	4.9	123.7	46417

5 Cores

Nominal Conductor Area (mm^2)	No.and Diameter of Wires (no./mm)	Thickness of Insulation (mm)	Thickness of Sheath (mm)	Overall Diameter (mm)	Approximate Weight (kg/km)
5X1.5	7/0.53	0.7	1.8	11.7	197
5X2.5	7/0.67	0.7	1.8	12.8	260
5X4	7/0.85	0.7	1.8	14.3	357
5X6	7/1.04	0.7	1.8	15.8	479
5X10	7/1.35	0.7	1.8	18.3	721
5X16	7/1.70	0.7	1.8	21.2	1059
5X25	7/2.14	0.9	1.8	25.8	1620
5X35	7/2.52	0.9	1.8	28.9	2164
5X50	19/1.78	1.0	2.0	33.4	2907
5X70	19/2.14	1.1	2.2	39.2	4131
5X95	19/2.52	1.1	2.3	44.6	5596
5X120	37/2.03	1.2	2.5	49.8	7039
5x150	37/2.25	1.4	2.7	55.5	8656
5x185	37/2.52	1.6	2.9	62.1	10833
5x240	61/2.25	1.7	3.2	70.3	14127
5x300	61/2.52	1.8	3.4	77.8	17590
5x400	61/2.85	2.0	3.8	87.7	22455
5x500	61/3.20	2.2	4.1	97.8	28194
5x630	127/2.52	2.4	4.5	110.4	36239
5x800	127/2.85	2.6	4.9	123.9	46131
5x1000	127/3.20	2.8	5.4	138.2	57968