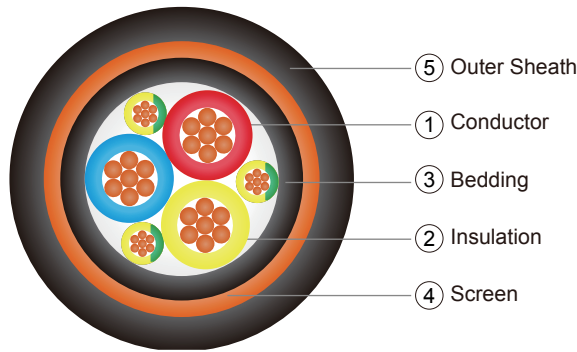


CU/XLPE/PVC/CT/PVC (3 Cores + 3 Earth)

XLPE Insulated, PVC Bedded, Copper Tape Screened, 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.



Construction

- ① Conductor: Plain annealed copper, class1 solid or class 2 stranded circular or compacted.
- 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
3+3	Red, Yellow, Blue, Green/ Yellow (x3)	Brown, Black, Grey, Green/ Yellow (x3)

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

Bedding: Polyvinyl chloride (PVC) compound Type ST1 (80°C), ST2 (90°C) of IEC 60502-1.

- ③ Bedding Colour: Black.
- ④ Screen: Copper tape.
- ⑤ Outer Sheath: Polyvinyl chloride (PVC) compound type ST1 (80°C), ST2 (90°C) of IEC 60502-1.
Outer Sheath Colour: Black

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: IEC60332-1, BS EN60332-1

Installation Reference

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

Max.Pulling Tension (N/mm²): 50

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Dimension

Nominal Conductor Area (mm ²)	Combinbe Earth Size (mm ²)	No.and Diameter of Wires (no./mm)	Thickness of Insulation (mm)	Diameter Under Screen (mm)	Overall Diameter (mm)	Approx Net Weight (kg/km)
3x1.5	4.5(3x1.5)	7/0.53	0.7	11.7	16.8	490
3x2.5	4.5(3x1.5)	7/0.67	0.7	12.3	17.4	537
3x4	4.5(3x1.5)	7/0.85	0.7	13.1	18.2	606
3x6	7.5(3x2.5)	7/1.04	0.7	14.6	19.7	736
3x10	12(3x4)	7/1.35	0.7	16.8	21.9	964
3x16	18(3x6)	7/1.70	0.7	19.2	24.3	1263
3x25	30(3x10)	7/2.14	0.9	23.2	28.3	1782
3x35	30(3x10)	7/2.52	0.9	24.9	30.0	2111
3x50	30(3x10)	19/1.78	1.0	27.4	32.5	2554
3x70	48(3x16)	19/2.14	1.1	32.4	37.9	3544
3x95	48(3x16)	19/2.52	1.1	35.2	41.3	4569
3x120	75(3x25)	37/2.03	1.2	40.5	46.8	5791
3x150	75(3x25)	37/2.25	1.4	43.8	50.3	6785
3x185	105(3x35)	37/2.52	1.6	49.0	55.9	8415
3x240	150(3x50)	61/2.25	1.7	56.0	63.3	10837
3x300	150(3x50)	61/2.52	1.8	60.0	67.9	13082