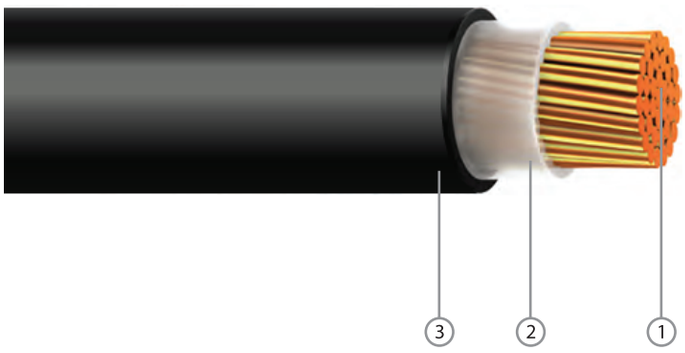
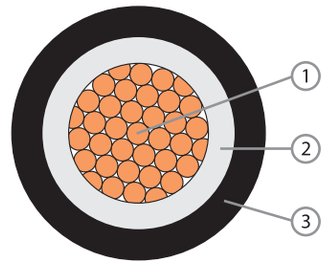
CU / XLPE / PVC (SINGLE CORE)

XLPE Insulated, PVC Sheathed Cable, 0.6 / 1kV, IEC60502





Component
1. Plain Annealed Copper Wire
2. Cross-linked Polyethylene Compound
3. PVC Compound

CONSTRUCTION

Conductor:	Plain Annealed Copper, Class 2 Stranded Circular or Compacted
Insulation:	Cross-linked Polyethylene (XLPE) Compound
Insulation Colour:	Natural
Outer Sheath:	Polyvinyl Chloride (PVC) Compound Type ST2
Outer Sheath Colour:	Black

ELECTRICAL CHARACTERISTICS

Operating Voltage, Uo/U:	0.6/1KV
Operating Temperature:	-15°C to 90°C
Final Short Circuit Temperature:	250°C
Test Voltage:	3.5kV 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/mm^2):	50

	Nominal Conductor Area (mm^2)	No. and Diameter of Wires (no./mm)	Radial Thickness of Insulation (mm)	Cable Overall Diameter (mm)	Approximate Weight (kg/km)
SINGLE CORE	1 x 16	7 / 1.70	0.7	9.6	225
	1 x 25	7 / 2.14	0.9	11.3	338
	1 x 35	7 / 2.52	0.9	12.5	443
	1 x 50	19 / 1.78	1.0	14.1	582
	1 x 70	19 / 2.14	1.1	16.1	814
	1 x 95	19 / 2.52	1.1	18.2	1097
	1 x 120	37 / 2.03	1.2	20.0	1365
	1 x 150	37 / 2.25	1.4	22.2	1676
	1 x 185	37 / 2.52	1.6	24.4	2081
	1 x 240	61 / 2.25	1.7	27.5	2700
	1 x 300	61 / 2.52	1.8	30.3	3355
	1 x 400	61 / 2.85	2.0	33.9	4262
	1 x 500	61 / 3.20	2.2	37.6	5338
	1 x 630	127 / 2.52	2.4	42.4	6857
	1 x 800	127 / 2.85	2.6	47.3	8701
	1 x 1000	127 / 3.20	2.8	52.4	10891

For current rating and voltage drop, please refer to Table B1.5 and B2.5 on Page 70.

Table 15