

## XLPE INSULATED MULTICORE ROUND CABLE



### Kanbery Cable Code - MULTICORE-KAN

#### APPLICATIONS

XLPE Cable is made of a thermoset material which means it is highly resistant to heat, moisture, and chemicals. This makes it an ideal choice for harsh environmental conditions. It is used for power distribution for electrical equipment and other uses in the automotive, aerospace, chemical, mechanical, and cement industries. Due to its low and high performance temperature resistance and mechanical strength, it is ideal and affordable.

#### CHARACTERISTICS

**Voltage Rating**  
650 / 1100V

**Temperature Rating**  
Fixed : -15°C to +90°C

**Minimum Bending Radius**  
Fixed: 6 x overall diameter

#### CONSTRUCTION

**Conductor**  
Class 2 / class 5 Annealed bare or bunched copper  
Flexible conductor As per IEC 60228

**Insulation**  
Specially formulated XLPE Cross Linked polyethylene compound As per IEC 60332

**Sheath**  
PVC 5T1 to IS 5831

#### Core identification

2 core: ● Red ● Black

3 core: ● Red ● Yellow ● Blue  
● Brown ● Blue ● Black

4 core: ● Red ● Yellow ● Blue ● Green  
● Brown ● Blue ● Black ● Yellow  
● Green Line ● Green with Yellow line

**Sheath Colour**  
● Black

Note : (Any other Colour on specific request can also be supplied)

#### CABLE THIRD PARTY ACCREDITATION

We are Design and confirmed  
by bodyline BASIC and ISI

#### STANDARDS

IS 8130:2013 | IEC 60228

IS 5831:1984

IS 10810:53 | IEC 60332-1

#### THE CABLE LAB

AN ISO/IEC 17025 AND IECEE CBTL ACCREDITED FACILITY

Our world-class testing facility assures the quality and compliance of this cable through a continuous and rigorous testing regime.



#### SUSTAINABILITY COMMITMENT

We are on a journey to Net Zero.

We've committed to near-term emissions reductions and a net-zero target with the Science Based Targets initiative and we're a signatory to the United Nations Global Compact Sustainable Development Goals.

Learn more about embodied carbon and our carbon emissions reduction actions, our comprehensive recycling services, and wider ESG activities for sustainable operations at: [www.kanberycable.com/company/about-us/esg-sustainability](http://www.kanberycable.com/company/about-us/esg-sustainability)



#### REGULATORY COMPLIANCE

This cable is compliant with European regulation EN 50575 and Bureau of Indian Standards, the Construction Products Regulation.



This cable meets the requirements of the Low Voltage Directive 2014/35/EU and the RoHS Directive 2011/65/EU. RoHS compliance has been tested and confirmed by The Cable Lab as meeting the requirements of the BSI RoHS Trusted Kitemark™.



## DIMENSIONS

Nominal cross sectional area of conductor	Number/ Nominal dia of strands	Nominal Insulation Thickness	Nominal Sheath Thickness / mm			Max. Overall Diameter in mm			Max. conductor resistance at 20°C	Current Rating
			2 core	3 core	4 core	2 core	3 core	4 core		
Sq. mm.	mm	mm	2 core	3 core	4 core	2 core	3 core	4 core	ohms / km	Amps
0.50	16/0.20	0.60	0.90	0.90	0.90	6.10	6.40	6.90	39.00	6
0.75	24/0.20	0.60	0.90	0.90	0.90	6.50	6.80	7.40	26.00	9
1.00	32/0.20	0.60	0.90	0.90	0.90	6.70	7.10	7.70	19.50	14
1.50	30/0.25	0.60	0.90	0.90	1.00	7.20	7.70	8.50	13.30	18
2.50	50/0.25	0.70	1.00	1.00	1.00	8.80	9.35	10.25	7.98	24
4.00	56/0.30	0.80	1.00	1.00	1.00	9.90	10.50	11.50	4.95	32
6.00	84/0.30	0.80	1.10	1.20	1.20	11.80	12.70	13.80	3.30	33
10.00	140/0.30	1.00	1.30	1.40	1.40	14.80	15.90	17.50	1.91	45
16.00	224/0.30	1.00	1.40	1.40	1.40	17.00	18.35	20.50	1.21	60
25.00	350/0.30	1.20	1.40	1.50	1.60	20.50	22.20	25.50	0.78	75
35.00	490/0.30	1.20	1.60	1.60	1.70	23.20	25.30	28.00	0.554	95
50.00	703/0.30	1.40	2.00	2.00	2.00	26.60	29.10	32.50	0.386	125

Table 01 : Electrical Parameters on flexible multicore cables

Cross sectional Ares mm <sup>2</sup>	0.5	0.75	1.00	1.50	2.50	4.00
Twin core Amps	3.50	6.50	11.00	13.00	18.00	24.00
Three core Amps	3.00	5.00	9.00	11.00	14.00	18.00
Four core Amps	2.50	4.5	8.00	10.00	13.00	17.00

Table 02 : Electrical Parameters on flexible multicore cables

Cross sectional Ares mm <sup>2</sup>	6.00	10.00	16.00	25.00	35.00	50.00
Twin core Amps	32.00	42.00	56.00	72.00	92.00	124.00
Three core Amps	24.00	32.00	43.00	56.00	71.00	97.00
Four core Amps	23.00	30.00	39.00	52.00	66.00	90.00

### De. Rating factors for variation in ambient temperature

Ambient Temperature °C	35°C	40°C	45°C	50°C	55°C	60°C	65°C
De. Rating Factor	1.08	1	0.91	0.82	0.7	0.57	0.4