

Cat 6 U/ PE Cable



Kanbery Cable Code - **Cat 6 - KAN**

APPLICATION

A multi-pair performance cable that consists of twisted pair conductors, used mainly for data transmission. Category 6 is recommended for all new installations, supports a frequency range of up to 250MHz and is designed for transmission speeds of up to 1 gigabit per second (Gigabit Ethernet).

CHARACTERISTICS

Temperature Rating
-20°C to +60°C

Minimum Bending Radius
Fixed: 4 x overall diameter
Flexed: 8 x overall diameter

CONSTRUCTION

Conductor
Class 1 solid copper conductor

Insulation
HDPE (High Density Polyethylene)

Sheath
PE (Polyethylene)

Core Identification
Pair 1: ● Blue ● White/Blue
Pair 2: ● Orange ● White/Orange
Pair 3: ● Green ● White/Green
Pair 4: ● Brown ● White/Brown

Sheath Colour
● Black ● Yellow ● Blue ● Green

Note
Direct-burial version also available

CABLE ACCREDITATION



Cables are designed and confirmed by body like BASEC and ISI

STANDARDS

ISO / IEC 11801, TIA 568C.2, YD/T1019



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-team 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



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

NO. OF PAIRS	AWG	NOMINAL DIAMETER OVER INSULATION mm	NOMINAL OVERALL DIAMETER mm
4	23	1.02	6.7

PERFORMANCE CHARACTERISTICS

FREQUENCY MHz	ATTENUATION dB/100m	NEXT dB	PS-NEXT dB	RL dB	ELFEXT dB	PS-ELFEXT dB/100m	PHASE DELAY ns
1	2.03	74.3	72.3	20	67.8	64.8	570
4	3.78	65.3	63.3	23	55.8	52.8	552
8	5.32	60.8	58.8	24.5	49.7	46.7	546.73
10	5.95	59.3	57.3	25	47.8	44.8	545.38
16	7.55	56.2	54.2	25	43.7	40.7	543
20	8.47	54.8	52.8	25	41.8	38.8	542.05
25	9.51	53.3	51.3	24.3	39.8	36.8	541.2
31.25	10.67	51.9	49.9	23.6	37.9	34.9	540.44
62.5	15.38	47.7	45.4	21.5	31.9	28.9	538.55
100	19.80	44.3	42.3	20.1	27.8	24.8	537.6
200	28.98	39.8	37.8	18	21.8	18.8	536.54
250	32.85	38.3	36.3	17.3	19.8	16.8	536.27

ELECTRICAL CHARACTERISTICS

VELOCITY RATIO %	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km	MAXIMUM RESISTANCE UNBALANCE %
68	95	5

The information contained within this datasheet is for guidance only and is subject to change without notice or liability. All the information is provided in good faith and is believed to be correct at the time of publication. When selecting cable accessories, please note that actual cable dimensions may vary due to manufacturing tolerances.