

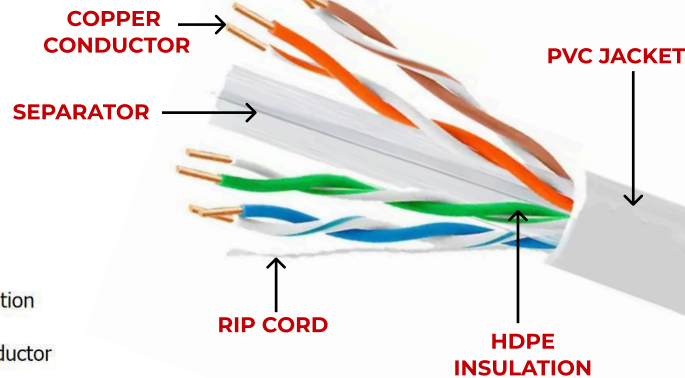
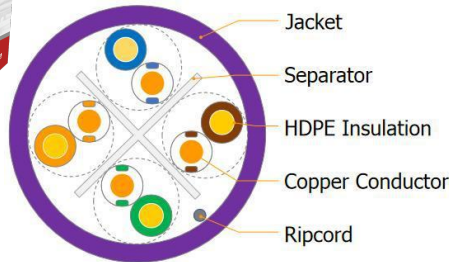


### CAT6 U/UTP - BOLT SERIES

**PART NO.:** C650024

**DESCRIPTION:** CAT6 X 4 PAIR UTP 100% COPPER

KAYBE CAT6 U/UTP - BOLT SERIES 100% copper cable is designed for high-speed data transmission, supporting up to 250 MHz bandwidth. Its unshielded twisted pairs minimize crosstalk and interference for reliable performance in Gigabit Ethernet and PoE applications. Durable and versatile, it's ideal for residential and commercial networking needs.



### HIGH FREQUENCY ELECTRICAL PARAMETERS

FREQ (MHz)	INS LOSS (dB/100m) Max.	NEXT Pair to Pair (dB/100m) Min.	NEXT Power Sum (dB/100m) Min.	ELFEXT Pair to Pair (dB/100m) Min.	ELFEXT Power Sum (dB/100m) Min.	Return Loss (dB/100m)
1	1.8	71.0	67.4	70.1	67.3	25.2
4	3.6	62.5	64.1	58.8	55.9	28.1
8	5.0	60.0	63.2	51.2	50.0	26.3
10	5.8	58.1	61.5	50.1	46.7	30.1
16	7.7	55.0	60.0	46.9	43.9	31.0
20	7.9	54.3	55.6	45.3	41.5	30.8
25	8.4	53.7	54.9	42.5	40.7	29.6
31.25	10.0	52.3	55.9	41.8	36.8	29.0
62.5	14.5	46.7	49.8	35.0	30.3	26.7
100	18.1	44.0	46.3	32.1	28.1	25.0
250	33.0	38.0	36.0	20.0	18.0	18.0

## CONSTRUCTION DATA SHEET

CONDUCTOR	
Conductor Material	Solid Bare Copper
No. Of Strands	1 Nos
Conductor Diameter (mm)	24AWG/0.505
INSULATION	
Insulation Material	HDPE (High Density Polyethylene)
Insulation Thickness	0.20MM
Insulation Diameter	0.94 ± 0.1 mm
PAIR TWISTING	
Pair - 1	Blue + White-Blue
Pair - 2	Orange + White-Orange
Pair - 3	Green + White-Green
Pair - 4	Brown + White-Brown
LAYING TYPE	
4 Pair Laid Up	All of the 4pair twisted together With Separator i.e. Cross Web
RIP Cord	Yes (Available)
OUTER JACKET	
Material	PVC (Polyvinyl Chloride)
Thickness (mm)	0.6 ± 0.1 mm
Diameter (mm)	5.8 ± 0.5 mm
Colour	White / Orange

## ELECTRICAL PARAMETERS

Conductor Resistance (20°C)	≤9.5Ω/100m
Electrical Resistance Unbalance (20°C)	≤2.0%
Insulation Resistance	>5000 MΩ.km
Pair to Ground Capacitance Unbalance (0.8 kHz or 1kHz)	≤160 pF/100m
Nominal Velocity of Propagation (NVP)	69 %
Skew	45 ns/100m
Operating Frequency, maximum	250 MHz

## ENVIRONMENTAL CHARACTERISTICS

Operating Temperature Range	-20°C to +60°C
Flame Retardant	IEC 60332-1
All Materials Comply with 2011/65/EU (ROHS 2.0)	

## ORDERING INFORMATION AS PER FOLLOWS

PART NO	DESCRIPTION	COLOR	PACKAGING
C650024W	CAT6 U/UTP - BOLT SERIES	White	2pcs / Carton
C650024O	CAT6 U/UTP - BOLT SERIES	Orange	2pcs / Carton

## COMPATIBLE KAYBE PRODUCTS

CAT 6 UTP Keystone & Faceplate	CAT 6 UTP 24Awg Patch Cords	CAT 6 UTP - 24 port & 48 port Patch Panel	CAT 6 UTP - 50u Gold - RJ45 Connectors
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