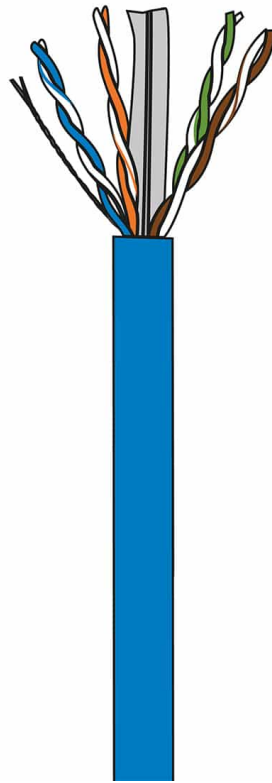# Cat 6 U/UTP PVC Cable

Description

Category 6 U/UTP PVC cables are designed to deliver a robust standards based performance ensuring optimum bandwidth for today's high speed network applications. The cable is designed to support horizontal networking applications over distances up to 100 meters. Each Category 6 U/UTP PVC exceed the minimum specified performance for Category 6 U/UTP cables and support all CLASS E applications as defined within ISO/IEC 11801 (2nd Edition): 2010 such as 1000BASE-T (Gigabit Ethernet), ATM-155, 100BASE-Tx, Token Ring 100Mbs-1, and 1G FCBASE-T.

Features and Benefits

- REACH / SVHC compliant regulation (EC) No. 1907/2006
- CPR ready, grade Eca

Pair color code:

- Pair 1:White/Blue, and Blue
- Pair 2:White/Orange, and Orange
- Pair 3:White/Green, and Green
- Pair 4:White/Brown, and Brown

Specifications

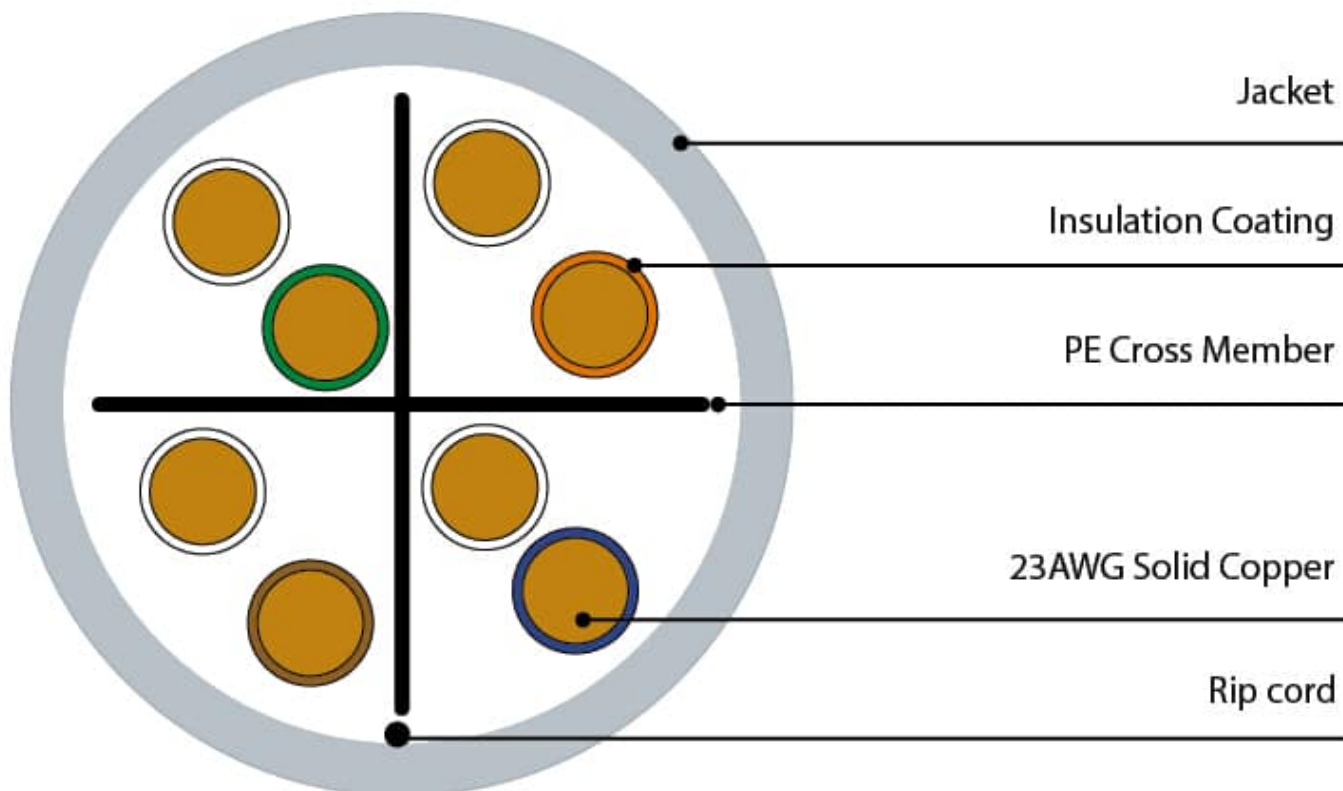| CONSTRUCTION	
Conductor	23AWG solid copper
Insulation	PE
Cable	8 insulated wires formed into 4 pairs. The 4 pairs are subsequently cabled together around a polyethylene cross-filler to form a cohesive unit.
Sheath Material	Polyvinyl Chloride (PVC)
Sheath Color	Blue
Diameter	6.0 (±0.3mm)
Electrical properties at 20°C	
Nom. mutual capacitance	<=5.6 nF/100m @1KHz
Max. capacitance unbalance	<=330 pF/100m
Nominal velocity of propagation	65%
Max. delay skew	45 ns/100m
Max. conductor resistance	93.8Ω/km (@ 20 °C)
Max. conductor resistance unbalance	<=5% (@ 20 °C)
Min. insulation resistance	5000 MΩ· m
Max. operating voltage	80V
Mechanical CharacteristicsTemperature Range	
Operation	-20°C to + 60°C
Installation	0°C to +50°C
Storage	-20°C to + 70°C
Maximum Tensile Force	
During Installation	110N
Minimum Bend Radii	
Installed	4 x Cable Diameter

Transmission line performance at 20°C

FREQUENCY MHZ	ATTENUATION DB/100M	NEXT DB	ACR DB/100M	PSNEXT DB	ELFEXT DB/100M	PSELFEXT DB/100M	RETURN LOSS
1	2.1	74.0	71.9	72.0	68	65	20
4	3.8	65.3	61.5	63.3	56	53	23
10	6.0	59.3	53.3	57.3	48	45	25
16	7.6	56.0	48.4	54.0	44	41	25
20	9.3	45.8	36.5	42.8	42	39	25
62.5	17	38.4	21.4	35.4	32	29	21.5
100	22.0	35.3	13.3	32.3	28	25	20.1
125	22.5	43.0	20.5	41.0	26	23	19.5

FREQUENCY MHZ	ATTENUATION DB/100M	NEXT DB	ACR DB/100M	PSNEXT DB	ELFEXT DB/100M	PSELFEXT DB/100M	RETURN LOSS
155.5	25.4	42.0	16.6	40.0	24	21	18.8
250	33.0	38.3	5.3	32.3	20	17	17.3

Technical Drawing

Jacket

Insulation Coating

PE Cross Member

23AWG Solid Copper

Rip cord

Ordering Information

DESCRIPTION	PART NO.	Jacket Color	CPR Rate
AFL Hyperscale® Category 6 U/UTP 4P 23AWG Solid CM PVC ETL Verified 305mtr box Blue	UCC411111	Blue	Eca

*Note: If the part number you previously had is not shown please contact the customer service team.

Additional Information

The Category 6 U/UTP PVC cable is manufactured and tested directly in accordance with the major industry standards:

- ISO/IEC 11801 2nd Edition
- ANSI/TIA 568-C.2
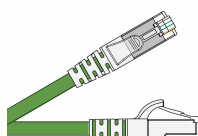- EN 50173
- IEC 61156-5
- EN50288-6-1

Category 6 U/UTP PVC cables exceed the requirements of:
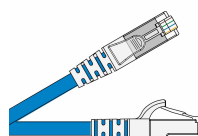
- IEC 60332-1-2

Related Products

Cat 6 U/UTP PE External Cable

Cat 6 Unscreened LSZH Patch Cords

Cat 6 Unscreened PVC CM Patch Cords

Cat 6 UTP 1RU 4×6, 24port Tooless Keystone Jack Patch Panel with Cable Manager

CAT6 UTP 1RU 24port Angled Black Keystone Jack Patch Panel with Cable Manager

CAT6 UTP Keystone Jack Punch Down Premium

CAT6 UTP Keystone Jack Tool free