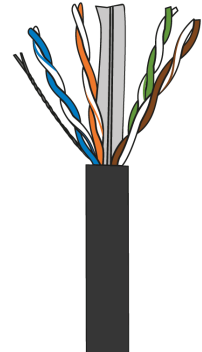


## Cat 6 U/UTP PE External Cable



Category 6 U/UTP PE External 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 PE External 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/BENEFITS

- REACH / SVHC compliant regulation (EC) No. 1907/2006

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

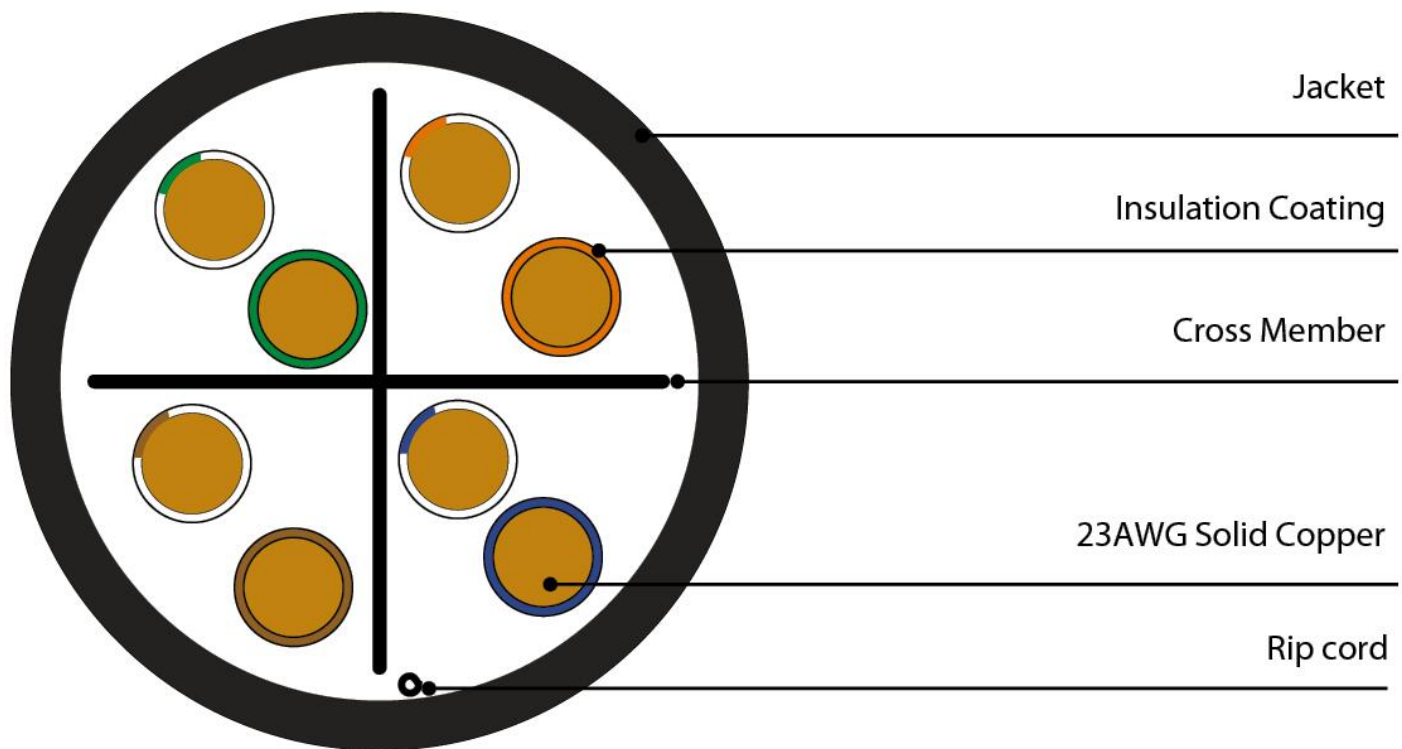
## SPECIFICATIONS

## 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	A uniform layer of Black colored PE compound (RAL 9005)
Diameter	6.2 ± 0.2mm
<b>Electrical properties at 20°C</b>	
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	300 V
<b>Mechanical Characteristics</b> Temperature Range	
Operation	-20°C to + 60°C
Installation	0°C to +50°C
Storage	-20°C to + 70°C
<b>Maximum Tensile Force</b>	
During Installation	110N
<b>Minimum Bend Radii</b>	
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
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



#### ADDITIONAL INFORMATION

The Category 6 U/UTP PE External 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
- EN 50288-3-1

Category 6 U/UTP PE External cables exceed the requirements of:

- IEC 60332-1-2

## ORDERING INFORMATION

DESCRIPTION	PART NO.	Jacket Color
AFL Hyperscale® Category 6 U/UTP 4P 23AWG Solid PE external cable 305mtr reel Black	UCC411701	Black
AFL Hyperscale® Category 6 U/UTP 4P 23AWG Solid PE external cable 500mtr reel Black	UCC411702	Black

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



SCAN QR FOR PRODUCT PAGE

## FURTHER INFORMATION

- For additional information please contact your sales representative
- To view the product 360 visit the product page (Scan the QR code or visit the link below)
- Downloaded from <https://www.aflhyperscale.com/product/cat-6-u-utp-pe-external-cable>
- AFL Hyperscale reserves the right to make changes in this datasheet at any time without notice
- Information in this document is correct as of January 07, 2020

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