

## Guaranteed Headroom over TIA and ISO Category 6 Performance Requirements

Hubbell's NEXTSPEED® Category 6 cable exceeds all transmission and mechanical performance requirements specified in the TIA/EIA-568.2-D and ISO/IEC 11801-1:2017, Class E standards.

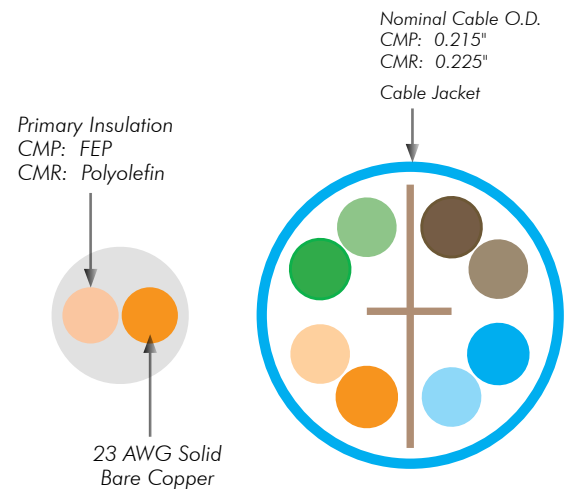
Configure Hubbell Premise Wiring's high performance, component compliant connectivity (jacks, panel, cords, blocks) with the NEXTSPEED Category 6 cable for a complete end to end cabling infrastructure solution with the best mix of performance and value. The NEXTSPEED Category 6 system is designed to deliver headroom beyond industry standards for dependable multi-gigabit Ethernet applications. NEXTSPEED's extended bandwidth provides reliability with zero bit error rate performance for today's high speed digital communications. Eligible projects are backed by the 25 Year Mission Critical® System Warranty.

### FEATURES

- 5dB headroom above Cat6 standards: NEXT, PSNEXT, ACRF, PSACRF
- Sweep tested from 1–550 MHz
- Cable design optimized with Hubbell connectivity products to maximize performance
- Third party verified Cat6 component and system performance
- Compact O.D. to maximize conduit/pathway capacity and airflow

### SPECIFICATIONS

- Conductor: 23 AWG solid annealed copper
- Insulation: CMP: FEP; CMR: Polyolefin
- Pairing
  - 1: Light Blue + Blue
  - 2: Light Orange + Orange
  - 3: Light Green + Green
  - 4: Light Brown + Brown
- Cabling: 4 unshielded twisted pairs cabled around a cross web separator in an overall round jacket
- Jacket: CMP: Low-Smoke PVC; CMR: PVC
- NVP: CMP: 72%; CMR: 70%
- Rated Temperature: CMP 90°C; CMR 75°C



### STANDARDS

- UL 444
- ANSI/TIA 568.2-D
- ISO/IEC 11801-1:2017, Class E
- NFPA 262 (CMP); UL 1666 (CMR)
- NEC® Article 800 compliant (NFPA 70)
- RoHS/RoHS 2 compliant

### APPLICATIONS

#### Ethernet:

- IEEE 802.3 10/100/1000BASE-T
- IEEE 802.3 2.5 and 5GBASE-T
- IEEE 802.3 10GbE when qualified per TIA TSB-155

#### Power over Ethernet

- IEEE 802.3af (PoE)
- IEEE 802.3at (PoE+)
- IEEE 802.3bt (4PPoE Type 3 and 4)



# NEXTSPEED® Category 6 Cable

## NEXTSPEED® Category 6 UTP Cable

Color	PLENUM 1,000ft REELEX® Box	RISER 1,000ft REELEX® Box	PLENUM 1,000ft Spool	RISER 1,000ft Spool
Black	<b>HC6RPBK</b>	<b>HC6RRBK</b>	<b>HC6SPBK</b>	<b>HC6SRBK</b>
Blue	<b>HC6RPB</b>	<b>HC6RRB</b>	<b>HC6SPB</b>	<b>HC6SRB</b>
Gray	<b>HC6RPGY</b>	<b>HC6RRGY</b>	<b>HC6SPGY</b>	<b>HC6SRGY</b>
Green	<b>HC6RPGN</b>	<b>HC6RRGN</b>	<b>HC6SPGN</b>	<b>HC6SRGN</b>
Orange	<b>HC6RPOR</b>	<b>HC6RROR</b>	<b>HC6SPOR</b>	<b>HC6SROR</b>
Pink	<b>HC6RPPK</b>	<b>HC6RRPK</b>	<b>HC6SPPK</b>	<b>HC6SRPK</b>
Purple	<b>HC6RPP</b>	<b>HC6RRP</b>	<b>HC6SPP</b>	<b>HC6SRP</b>
Red	<b>HC6RPR</b>	<b>HC6RRR</b>	<b>HC6SPR</b>	<b>HC6SRR</b>
White	<b>HC6RPW</b>	<b>HC6RRW</b>	<b>HC6SPW</b>	<b>HC6SRW</b>
Yellow	<b>HC6RPY</b>	<b>HC6RRY</b>	<b>HC6SPY</b>	<b>HC6SRY</b>

\*REELEX is licensed and patented by Windings Inc.



## NEXTSPEED® Category 6 UTP System Components

### Jacks

COBRA-LOCK™	Xcelerator
<b>HJU6xx</b>	<b>HXJ6xx</b>



xx = Color: **BK** (Black), **B** (Blue), **BN** (Brown), **GL** (Gold), **GY** (Gray), **GN** (Green), **EI** (Ivory), **OW** (Office White), **OR** (Orange), **PK** (Pink), **P** (Purple), **R** (Red), **W** (White), **Y** (Yellow)

Note: Pink not available for HXJ6; Gold and Purple HXJ6 available in 24-pack only.

### Patch Panels

Description	Catalog No.
Standard, Black	<b>HP6pp*</b>
Angled, Black	<b>HP6ppA</b>

\*Add **W** to end of Catalog Number for White (Standard only)

**pp** = Ports

**24** = 24-port, 1.75"H

**48** = 48-port, 3.50"H



### Patch Cords

Catalog No.	<b>HC6xyy</b>
xx = Color:	
<b>BK</b> (Black), <b>B</b> (Blue), <b>GY</b> (Gray), <b>GN</b> (Green), <b>OR</b> (Orange), <b>P</b> (Purple), <b>R</b> (Red), <b>W</b> (White), <b>Y</b> (Yellow)	
yy = Standard Length: <b>01</b> (1'), <b>03</b> (3'), <b>05</b> (5'), <b>07</b> (7'), <b>10</b> (10'), <b>15</b> (15'), <b>20</b> (20'), <b>25</b> (25')	



## TRANSMISSION SPECIFICATIONS

### TIA/EIA-568.2-D Category 6 Compliant; ISO/IEC 11801-1:2017, Class E Compliant

Freq (MHz)	Insertion Loss (dB/100m)		NEXT Min. (dB/100m)		PSNEXT Min. (dB/100m)		ACR Min. (dB/100m)		PSACR Min. (dB/100m)		ELFEXT (ACRF) Min. (dB/100m)		PSELFEXT (PSACRF) Min. (dB/100m)		Return Loss Min. (dB/100m)	
	Worst Case	Typical	Worst Case	Typical	Worst Case	Typical	Worst Case	Typical	Worst Case	Typical	Worst Case	Typical	Worst Case	Typical	Worst Case	Typical
1	2.0	1.7	79.3	90.6	77.3	88.2	77.3	88.9	75.3	85.6	72.7	82.6	69.8	80.6	20.0	28.5
4	3.8	3.4	70.3	80.9	68.3	78.6	66.5	77.5	64.5	74.3	60.7	70.7	57.8	68.8	23.0	33.8
10	5.9	5.4	64.3	74.4	62.3	72.1	58.4	69.0	56.5	65.7	52.7	62.9	49.8	60.9	25.0	36.1
16	7.5	6.9	61.2	71.4	59.2	69.1	53.7	64.5	51.7	61.3	48.6	58.9	45.7	56.9	25.0	36.2
20	8.4	7.8	59.8	70.1	57.8	67.8	51.4	62.4	49.4	59.2	46.7	57.0	43.8	54.9	25.0	35.9
31.25	10.6	9.8	56.9	67.2	54.9	64.8	46.3	57.3	44.3	54.2	42.8	53.3	39.9	51.1	23.6	35.7
62.5	15.3	14.1	52.4	62.5	50.4	60.3	37.1	48.4	35.1	45.3	36.8	47.5	33.9	45.2	21.5	33.2
100	19.7	18.1	49.3	59.7	47.3	57.3	29.6	41.5	27.6	38.5	32.7	43.6	29.8	41.3	20.1	32.2
200	28.8	26.4	44.8	54.5	42.8	52.3	16.0	28.3	14.0	25.2	26.7	37.7	23.8	35.4	18.0	30.2
250	32.6	29.8	43.3	53.5	41.3	50.8	10.7	23.5	8.7	20.4	24.7	35.7	21.8	33.4	17.3	30.1
400	42.7	38.9	36.3	48.2	34.3	45.6	-	9.2	-	6.2	17.8	30.2	12.8	28.8	15.9	27.0
500*	-	44.2	-	45.4	-	43.0	-	1.2	-	-	-	28.2	-	25.9	-	25.5
550*	-	47.2	-	44.0	-	42.1	-	-	-	-	-	26.6	-	24.5	-	24.6

\*Performance values beyond these frequencies are provided for information only.