



# HUBBELL NEXTSPEED Ascent Category 6A Reduced Diameter Cable

Reduced 0.25" Jacket O.D.

Third Party Verified Category 6A Component Compliant

+7dB Alien Crosstalk Headroom Above Standards

High Power PoE (4PPoE) Ready

### SPECIFICATIONS

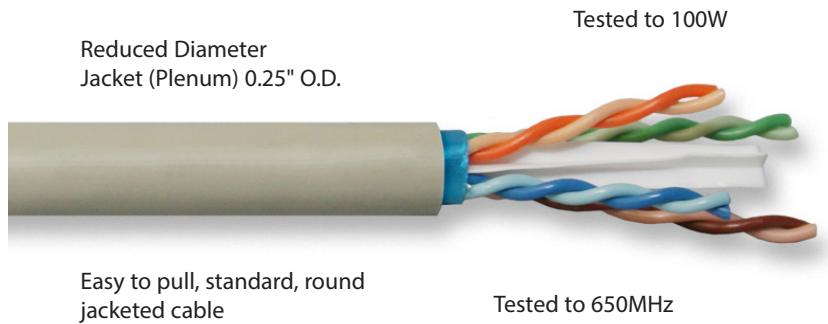
- ◆ Conductor: 23 AWG solid bare copper
- ◆ Insulation: CMP: FEP, CMR: thermoplastic
- ◆ Pairing:
  - 1: Light Blue/Blue
  - 2: Light Orange/Orange
  - 3: Light Green/Green
  - 4: Light Brown/Brown
- ◆ Non-conductive Isolation Wrap
- ◆ Jacket:
  - CMP and CMP-LP: 0.6A, FR, low-smoke PVC
  - CMR and CMR-LP: 0.5A, FR PVC
- ◆ NVP (%):
  - CMP: 71
  - CMR: 66
- ◆ Rated Temperature: CMP 90°C; CMR 75°C

### STANDARDS/VERIFICATIONS

- ANSI/TIA-568.2-D and ISO/IEC 11801 component compliance
- IEEE 802.3af (PoE), IEEE 802.3at (PoE+), IEEE 802.3bt (4PPoE Type 3 and 4)
- 10BASE-T through 10GBASE-T Ethernet
- NEC Article 800 compliant
- Third party verified
- UL/c(UL) Listed, LP Listed for product safety in high heat/high power PoE applications
- HDBASE-T Certified
- RoHS/RoHS 2 compliant
- REACH compliant

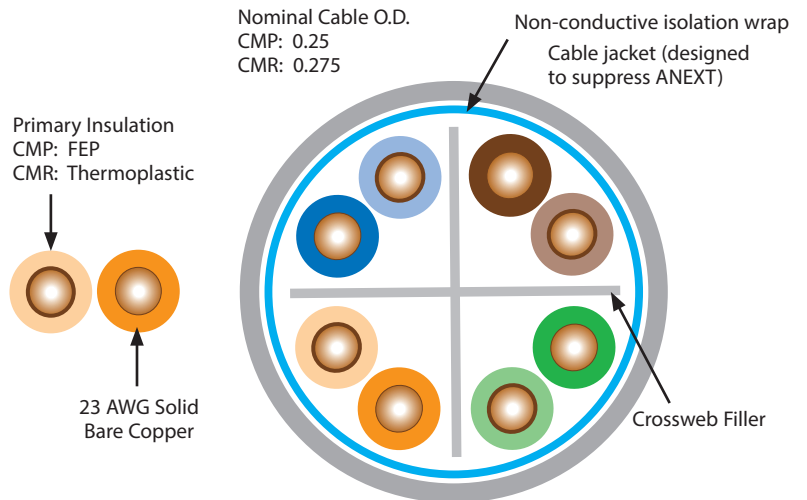
### APPLICATIONS

- ▲ High-performance/high-power PoE applications
- ▲ Data centers 10GbE between devices
- ▲ AV applications up to 100m



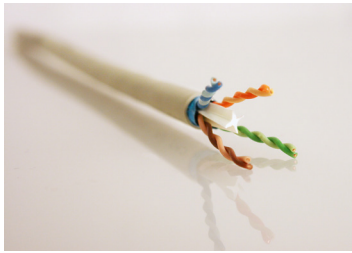
Hubbell's NEXTSPEED® Ascent Category 6A RD Cables provide a significantly smaller jacket—0.25" O.D. (plenum) or 0.275" O.D. (riser)—allowing contractors to install significantly more drops per location than traditional Category 6A cables. These new cables offer a high-performing, Category 6A component compliant (ANSI/TIA-568.2-D), LP rated solution. NEXTSPEED Ascent RD/LP cables are ideal for new high power IEEE 802.3bt (4PPoE) applications, such as HDBaseT Class A and B, IEEE 802.11ax high bandwidth/high power wireless access point applications, and 10GBASE-T Ethernet 100m solutions.

### CABLE FEATURES



### TEMPERATURE INCREASE AND POWER EFFICIENCY for a Bundle of 100 Cables with 100W Injected

	Temperature Rise in a 100-Cable Bundle	Power Efficiency on 100m at Max Temp
NEXTSPEED® Ascent Cat 6A RD Cable	8.2°C	82.8% at 53.2°C



NEXTSPEED® Ascent Category 6A Reduced Diameter (RD) Cable, 1000ft

Color	Plenum		Riser	
	Reel in a Box	Spool	Reel in a Box	Spool
Black	C6ASPD <sup>SBK</sup>	C6ASPPD <sup>SBK</sup>	C6ASRD <sup>SBK</sup>	C6ASPRD <sup>SBK</sup>
Blue	C6ASPD <sup>SB</sup>	C6ASPPD <sup>SB</sup>	C6ASRD <sup>SB</sup>	C6ASPRD <sup>SB</sup>
Green	C6ASPD <sup>SGN</sup>	C6ASPPD <sup>SGN</sup>	C6ASRD <sup>SGN</sup>	C6ASPRD <sup>SGN</sup>
Gray	C6ASPD <sup>SGY</sup>	C6ASPPD <sup>SGY</sup>	C6ASRD <sup>SGY</sup>	C6ASPRD <sup>SGY</sup>
Orange	C6ASPD <sup>SOR</sup>	C6ASPPD <sup>SOR</sup>	C6ASRD <sup>SOR</sup>	C6ASPRD <sup>SOR</sup>
Purple	C6ASPD <sup>SPP</sup>	C6ASPPD <sup>SPP</sup>	C6ASRD <sup>SPP</sup>	C6ASPRD <sup>SPP</sup>
Red	C6ASPD <sup>SR</sup>	C6ASPPD <sup>SR</sup>	C6ASRD <sup>SR</sup>	C6ASPRD <sup>SR</sup>
White	C6ASPD <sup>SW</sup>	C6ASPPD <sup>SW</sup>	C6ASRD <sup>SW</sup>	C6ASPRD <sup>SW</sup>
Yellow	C6ASPD <sup>SY</sup>	C6ASPPD <sup>SY</sup>	C6ASRD <sup>SY</sup>	C6ASPRD <sup>SY</sup>

NEXTSPEED® Category 6A UTP System Components



NEXTSPEED® Ascent Cat 6A Jacks with COBRA-LOCK™ Termination

Color	Single Pack
Black	HJU6ABK
Blue	HJU6AB
Gray	HJU6AGY
White	HJU6AW

Add 24 to Catalog Number for 24-pack  
 Additional colors: BN (Brown), GL (Gold), GN (Green), EI (Ivory), OW (Office White), OR (Orange), PK (Pink), P (Purple), R (Red), Y (Yellow)



NEXTSPEED® Ascent Category 6A Patch Cords

Color	Standard	Low Diameter
Black	HC6ABKyy	HCL6ABKyy
Blue	HC6AByy	HCL6AByy
Gray	HC6AGYyy	HCL6AGYyy
White	HC6AWyy	HCL6AWyy
Yellow	HC6AYyy	HCL6AYyy

yy = Standard Length: 01 (1'), 03 (3'), 05 (5'), 07 (7'), 10 (10'), 15 (15'), 20 (20'); made-to-order lengths available up to 100ft  
 Additional colors: GN (Green), OR (Orange), PK (Pink), P (Purple), R (Red)  
 Add P to Catalog Number for Plenum



NEXTSPEED® Ascent Category 6A Panel Kits

19-inch, Black, COBRA-LOCK™ jacks included		
Format	24-Port	48-Port
Standard	HPJ6A24	HPJ6A48
Angled	HPJ6A24A	HPJ6A48A

TRANSMISSION SPECIFICATIONS

TIA/EIA-568.2-D Category 6A Compliant; ISO/IEC 11801 Class E<sub>A</sub> 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)		PSANEXT Min. (dB/100m)		PSAACRF 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	Worst Case	Typical	Worst Case	Typical
1	2.1	2	74.3	78.3	72.3	77.3	72.2	77.3	70.2	76.3	67.8	73.8	64.8	70.8	20	22	74	96.5	74	80
4	3.8	3.7	65.3	69.3	63.3	68.3	61.5	66.6	59.5	65.6	55.8	61.8	52.8	58.8	23	25	74	87.5	73.2	79.2
8	5.3	5.1	60.8	64.8	58.8	63.8	55.4	60.6	53.4	59.6	49.7	55.7	46.7	52.7	24.5	26.5	74	83	67.1	73.1
10	5.9	5.7	59.3	63.3	57.3	62.3	53.4	58.6	51.4	57.6	47.8	53.8	44.8	50.8	25	27	74	81.5	65.2	71.2
16	7.5	7.3	56.2	60.2	54.2	59.2	48.8	54	46.8	53	43.7	49.7	40.7	46.7	25	27	74	80	61.1	67.1
20	8.4	8.1	54.8	58.8	52.8	57.8	46.4	51.7	44.4	51.2	41.8	47.8	38.8	44.8	25	27	74	80	59.2	65.2
25	9.4	9.1	53.3	57.3	51.3	56.3	44	49.7	42	49	39.8	45.8	36.8	42.8	24.3	26.3	74	80	57.2	63.2
31.25	10.5	10.2	51.9	55.9	49.9	54.9	41.4	47.2	39.4	46.7	37.9	43.9	34.9	40.9	23.6	25.6	74	80	55.3	61.3
62.5	15	14.4	47.4	51.4	45.4	50.4	32.4	39	30.4	38.4	31.9	37.9	28.9	34.9	21.5	23.5	72.6	78.6	49.3	55.3
100	19.1	18.4	44.3	48.3	42.3	47.3	25.2	32.4	23.2	31.7	27.8	33.8	24.8	30.8	20.1	22.1	69.5	75.5	45.2	51.2
200	27.6	26.5	39.8	43.8	37.8	42.8	12.2	20.1	10.2	19.5	21.8	27.8	18.8	24.8	18	20	65	71	39.2	45.2
250	31.1	29.8	38.3	42.3	36.3	41.3	7.3	15.5	5.3	15.1	19.8	25.8	16.8	22.8	17.3	19.3	63.5	69.5	37.2	43.2
300	34.3	32.9	37.1	41.1	35.1	40.1	2.9	11.4	0.9	10.8	18.3	24.3	15.3	21.3	16.8	18.8	62.3	68.3	35.7	41.7
400	40.1	38.3	35.3	39.3	33.3	38.3	-	4.6	-	3.6	15.8	21.8	12.8	18.8	15.9	17.9	60.5	66.5	34.2	39.2
500	45.3	43	33.8	37.8	31.8	36.8	-	-	-	-	13.8	19.8	10.8	16.8	15.2	17.2	59	65	31.2	37.2
600*	-	47.5	-	36.4	-	35.6	-	-	-	-	-	18.2	-	15.2	-	16.7	-	63.8	-	35.6
650*	-	49.7	-	35.9	-	35.1	-	-	-	-	-	17.5	-	14.5	-	16.4	-	63.3	-	34.9

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