

HUBBELL  
**NEXTSPEED** Ascent Category 6A F/UTP Cable

Sweep Tested to 660MHz

Flexible Cable Construction to Facilitate Deployment

10GbE Application Assurance for All Standards-Supported Lengths

RoHS Compliant

Low Smoke Plenum Construction

UL Verified



**FEATURES**

- Category 6A component compliant
- Unique design to suppress alien crosstalk
- Designed for standard bend radius termination
- Standard round cable design

**SPECIFICATIONS**

- Conductor: 23AWG solid bare copper
- Insulation:
  - CMP: plenum-rated fluoropolymer
  - CMR: polyolefin
- Jacket:
  - CMP: low smoke, flame-retardant thermoplastic
  - CMR: flame-retardant thermoplastic
- Pairing:
  - 1: Blue + Blue/White
  - 2: Orange + Orange/White
  - 3: Green + Green/White
  - 4: Brown + Brown/White
- NVP: 68%

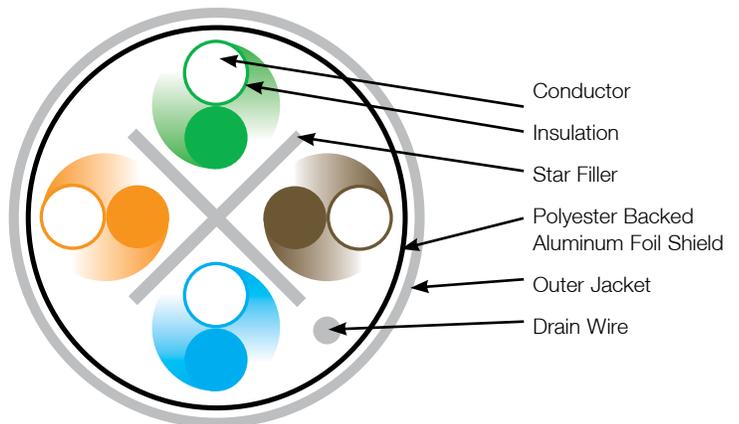
**STANDARDS**

- ANSI/TIA-568.2-D
- ISO/IEC 11801 Ed 2 (Class E<sub>A</sub>)
- UL 444
- Flame test:
  - CMP: cULus Listed Type CMP, CSA Type FT6
  - CMR: cULus Listed Type CMR, CSA Type FT4

NEXTSPEED® Ascent Shielded Category 6A cable provides significant margin above all electrical transmission performance requirements specified in ANSI/TIA-568-C.2 and ISO/IEC 11801 standards. The cable is designed to suppress alien crosstalk while maintaining 10 Gigabit Ethernet (10GBASE-T) throughput per IEEE 802.3an. The IEEE has identified alien crosstalk as the dominant noise source affecting the operation of 10GBASE-T.

NEXTSPEED Ascent Shielded Category 6A is a tuned system of structured cabling components designed and balanced to work together to deliver Category 6A performance and headroom beyond 500MHz. Ascent shielded provides the highest level of reliability in the industry with added protection against ANEXT, external noise and EMI.

**CABLE FEATURES**



**APPLICATIONS**

- Ethernet 10/100/1000/10GBASE-T (IEEE 802.3an)
- Data center, LAN and storage area cabling infrastructure
- Power over Ethernet (PoE) applications (IEEE 802.3bt)
- Commercial, medical, government and education facilities
- Bandwidth intensive processing:
  - 3D modeling
  - Broadband video
  - Online document publishing





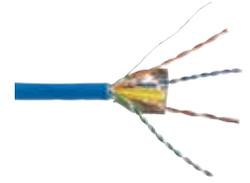
Ordering Information

NEXTSPEED® Ascent Category 6A F/UTP cable has been finely tuned to operate with Hubbell Ascent Category 6A shielded jacks, patch panels and patch cords to deliver maximum channel performance.

The Hubbell NEXTSPEED Ascent Category 6A system provides the highest margins in the industry against Category 6A (TIA) and Class E<sub>A</sub> (ISO) performance requirements.

NEXTSPEED® Ascent Category 6A F/UTP, 4-Pair Cable

Color	Plenum Spool (1000' Length)	Riser Spool (1000' Length)
Blue	<b>C6AFTPSPB</b>	<b>C6AFTPSRB</b>
Gray	<b>C6AFTPSPGY</b>	<b>C6AFTPSRGY</b>
White	<b>C6AFTPSPW</b>	<b>C6AFTPSRW</b>



Electrical Characteristics

Frequency (MHz)	Characteristic Impedance		ATT (dB/100m)	RL (dB Min)	NEXT (dB Min)	PS NEXT (dB Min)	ACRF (dB Min)	PS ACRF (dB Min)	PS ANEXT (dB Min)	PS AACRF (dB Min)	PD (ns/100m Max)
	Upper Limit Zu (Ω)	Lower Limit Zu (Ω)									
1	—	—	—	20.0	74.3	72.3	67.8	64.8	67.0	67.0	570.0
4	115.2	86.8	3.80	23.0	65.3	63.3	55.8	52.8	67.0	66.2	552.0
8	112.6	88.8	5.31	24.5	60.8	58.8	49.7	46.7	67.0	60.1	546.7
10	111.9	89.4	5.93	25.0	59.3	57.3	47.8	44.8	67.0	58.2	545.4
16	111.9	89.4	7.49	25.0	56.2	54.2	43.7	40.7	67.0	54.1	543.0
20	111.9	89.4	8.38	25.0	54.8	52.8	41.8	38.8	67.0	52.2	542.0
25	112.9	88.5	9.38	24.3	53.3	51.3	39.8	36.8	67.0	50.2	541.2
31.25	114.1	87.7	10.50	23.6	51.9	49.9	37.9	34.9	67.0	48.3	540.4
62.5	118.3	84.5	14.99	21.5	47.4	45.4	31.9	28.9	65.6	42.3	538.6
100	121.9	82.0	19.14	20.1	44.3	42.3	27.8	24.8	62.5	38.2	537.6
200	128.8	77.6	27.58	18.0	39.8	37.8	21.8	18.8	58.0	32.2	536.5
250	131.5	76.0	31.07	17.3	38.3	36.3	19.8	16.8	56.5	30.2	536.3
300	133.9	74.7	34.27	16.8	37.1	35.1	18.3	15.3	55.3	28.7	536.1
400	138.2	72.3	40.05	15.9	35.3	33.3	15.8	12.8	53.5	26.2	535.8
500	142.0	70.4	45.26	15.2	33.8	31.8	13.8	10.8	52.0	24.2	535.6

Note: Cables that meet the requirements of the characteristic impedance are not required to be measured for return loss; alternately, cables that meet the return loss requirements are not required to be measured for characteristic impedance.

Related Product

Ascent Shielded Jacks, Category 6A

Unit of Measure	Catalog No.
Single pack	<b>SJ6A</b>
24-pack	<b>SJ6A24</b>



Shielded Patch Panels, Unloaded

Ports	Height	Rack Units	Catalog No.
24	1.75" (45)	1	<b>HPJS24</b>
48	3.50" (89)	2	<b>HPJS48</b>



Note: Shielded jacks sold separately

Ascent Category 6A Patch Cords

Length	Catalog No.	Length	Catalog No.
3'	<b>PC6Axx03</b>	15'	<b>PC6Axx15</b>
5'	<b>PC6Axx05</b>	20'	<b>PC6Axx20</b>
7'	<b>PC6Axx07</b>	25'	<b>PC6Axx25</b>
10'	<b>PC6Axx10</b>	xx= Color: <b>B</b> =Blue, <b>GY</b> =Gray	



Integrated Solutions



Work Station & Cross-Connect Solutions

- All Hubbell iSTATION Products, Front-Loading, Rear-Loading, Frames, Bezels and Surface Mount Boxes
- All UDX Multimedia Panels



Delivery Systems Solutions

- Hubbell SystemOne Poke-Throughs, Concrete and Raised Access Floor Boxes
- Multi-Connect Wall Boxes and Conference Table Boxes
- Metal and Non-Metallic Raceway