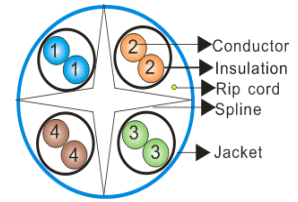


# Product Specifications



**23 AWG 4 Pair Cat 6A+**  
**650 MHz CMP**  
**Part No. 1477**



## Physical Characteristics

- **Conductor:** 23 AWG Solid Bare Annealed Copper
- **Insulation:** FEP (Premium Fluoropolymer)
- **Conductor Color Code:**  
**Pair 1:** Blue - White/Blue    **Pair 2:** Orange - White/Orange  
**Pair 3:** Green - White/Green    **Pair 4:** Brown - White/Brown
- **Spline:** FEP (Premium Fluoropolymer)
- **Rip Cord:** Applied longitudinally under jacket
- **Jacket:** Plenum PVC (Low-Smoke, Flame-Retardant & RoHS compliant)
- **Nominal Cable Diameter (in):** 0.255
- **Nominal Cable Net Weight (lbs/1000ft):** 32.19
- **Minimum Bend Radius (in):** 3.5
- **Maximum Pulling Force (lbs):** 25
- **Temperature Rating (°F):**  
**Installation:** +32 to + 140    **Storage & Operation:** -4 to + 167

## Applications

- IEEE 802.3: 1000 BASE-T Gigabit Ethernet, 100 BASE-TX, 10 BASE-T, 155 Mb/s and 622 Mb/s ATM, ANSI X3.263: 100 Mb/s, 10G BASE-T Ethernet, Broadband and Baseband Analog Video and transport of High Definition 1920x1080p and Ultra High Definition 4K/2k signals when used in conjunction with an HDMI or HD BASE-T extender between a source and a display

## Features & Benefits

- Cable is flexible and easy to install
- For applications that require Optimum Cat6A+ Performance with flexibility for the future
- Third-party verified for guaranteed performance and RoHS compliance
- Free from restricted metals and hazardous compounds. Check our green leaf label for more information

## Electrical Characteristics

Max Capacitance (nF/100m @ 1 kHz)	Max DC Resistance (Ω/100m @ 68 °F)	Max Delay Skew (ns/100m)	Nom Velocity of Propagation (%)	Characteristic Impedance (Ω@ 1- 100 MHz)
5.6	9.38	45	70	100±15

Freq (MHz)	Max Insertion Loss (dB/100m)	Min NEXT Loss (dB)	Min PSNEXT Loss (dB)	Min ACR (dB/100m)	Min PSACR (dB/100m)	Min ACRF (dB/100m)	Min PSACRF (dB/100m)	Min Return Loss (dB)
1	2.0	74.3	72.3	72.3	70.2	67.8	64.8	20.0
4	3.8	65.3	63.3	61.5	59.5	55.8	52.8	23.0
10	6.0	59.3	57.3	53.3	51.3	47.8	44.8	25.0
16	7.6	56.2	54.2	48.6	46.6	43.7	40.7	25.0
20	8.5	54.8	52.8	46.3	44.3	41.8	38.8	25.0
31.25	10.7	51.9	49.9	41.2	39.2	37.9	34.9	23.6
62.5	15.4	47.4	45.4	32.0	30.0	31.9	28.9	21.5
100	19.8	44.3	42.3	24.5	22.5	27.8	24.8	20.1
250	32.8	38.3	36.3	5.5	3.5	19.8	16.8	17.3
350	39.8	36.0	34.0	-	-	17.1	14.1	16.3
500	48.9	33.8	31.8	-	-	14.0	10.8	15.2
550	51.7	33.2	31.2	-	-	13.1	10.2	14.9
650	57.2	32.1	30.1	-	-	11.7	8.7	14.4

\* Spec meets ANSI/TIA/ 568 C.2 standard. Frequencies beyond the TIA requirements are for information only. All values are dB/ 100 m (328ft)

## Standard Compliances

- ANSI/TIA 568-C.2
- NEC/ CEC Type CMP (NFPA 262) for Plenum
- UL 444
- RoHS Compliant Directive 2011/65/EU
- Telecommunications Standards: Category 6A - TIA 568.C.2
- ANSI Specification: ANSI/TIA 568-C.2 Category 6A

## Certifications



## Certificates for Management System

- ISO9001: 2008, ISO14001: 2004, OHSAS 18001