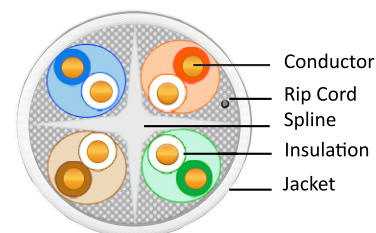


Specifications & Technical Data



Part Number: **1477**



SySPEED® Premium Cat 6A+ Network Ethernet Cable
Unshielded Twisted Pair (UTP) 4 Pair 23 AWG
Plenum Rated - CMP, FT6

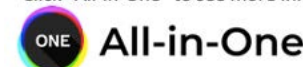
Characteristics

<ul style="list-style-type: none"> * Conductor: 23 AWG Solid Bare Annealed Copper * Insulation: FEP (Premium Fluoropolymer) * Spline: Plenum Polyolefin * Rip Cord: Applied Longitudinally Under Jacket * Jacket: Plenum PVC (Low Smoke, Flame Retardant, & RoHS Compliant) 	<ul style="list-style-type: none"> * Nominal Cable Diameter (in): 0.245 * Temperature Rating (°F): Installation: +32 to +140 Storage & Operation: -4 to +167 * Operating Voltage: 300V Max * Recommended RJ45 Connector: Platinum Tools # ezEX48 Shielded 	Conductor Color Code Pair 1: Blue - White/Blue Pair 2: Orange - White/Orange Pair 3: Green - White/Green Pair 4: Brown - White/Brown
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Features & Benefits

- * Cable is flexible and easy to install
- * Cable coiled with REELEX[®] Technology to ensure tangle-free pull
- * For applications that require Optimum Cat 6A 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

*Click "All-in-One" to see more info



Applications

Premise Horizontal Cable, Wireless, WIFI, 10 Gigabit Ethernet, 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, Broadband Baseband Analog Video and transport of High Definition 1920 X 1080p Ultra-High Definition 4K/2k signals when used in conjunction with an HDMI or HD BASE-T extender between a source and display, AES51, RS-422, IEEE 802.af (PoE), IEEE 802.3bt (PoE+), IEEE 802.3bt (POE++)

Standard Compliances

- * ANSI Specification: ANSI/TIA 568-D.2 Category 6A
- * NEC/CEC Type CMP (NFPA 262) for Plenum
- * UL 444 * ASTM B-3
- * RoHS 3 (EU 2015/863)

Certifications



ISO 9001: 2015, ISO 14001: 2015, OHSAS 18001

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		69		100±15	
Frequency (MHz)	Insertion Loss Maximum (dB/100m)	NEXT Minimum (dB/100m)	PSNEXT Minimum (dB/100m)	Return Loss Minimum (dB/100m)	PSANEXT Minimum (dB/100m)	PSAACRF Minimum (dB/100m)			
1	2.1	74.3	72.3	20.0	67.0	67.0			
4	3.8	65.3	63.3	23.0	67.0	66.2			
8	5.3	60.8	58.8	24.5	67.0	60.1			
10	5.9	59.3	57.3	25.0	67.0	58.2			
16	7.5	56.2	54.2	25.0	67.0	54.1			
20	8.4	54.8	52.8	25.0	67.0	52.2			
25	9.4	53.3	51.3	24.3	67.0	50.2			
31.25	10.5	51.9	49.9	23.6	67.0	48.3			
62.5	15.0	47.4	45.4	21.5	65.6	42.3			
100	19.1	44.3	42.3	20.1	62.5	38.2			
155	24.1	41.4	39.4	18.8	59.6	34.4			
200	27.6	39.8	37.8	18.0	58.0	32.2			
250	31.1	38.3	36.3	17.3	56.5	30.2			
300	34.3	37.1	35.1	16.8	55.3	28.7			
350	37.2	36.1	34.1	16.3	54.3	27.3			
400	40.1	35.3	33.3	15.9	53.5	26.2			
500	45.3	33.8	31.8	15.2	52.0	24.2			
550	47.7	33.2	31.2	14.9	51.4	23.4			
600	50.1	32.6	30.6	14.7	50.8	22.6			
700	54.5	31.6	29.6	14.2	49.8	21.3			

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

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Please note: Although Syston Cable makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice.