

## PART NUMBER: 1793

**SySPEED® Premium Network EtherNet/IP Cable**  
**Cat 6E Unshielded Twisted Pair (UTP) 4 Pair 23 AWG**  
**Outside Plant (OSP) - Rated Cable**  
**Direct Burial, Water Blocking Gel-filled, Sun Res**



## CHARACTERISTICS

- ▶ **Conductor:** 23 AWG Solid Bare Annealed Copper
- ▶ **Insulation:** Premium Polyolefin
- ▶ **Spline:** Premium Polyolefin
- ▶ **Rip Cord:** Applied Longitudinally Under Jacket
- ▶ **Flooding Compound:** Water Blocking Gel
- ▶ **Jacket:** LLDPE (*Sunlight Resistant, Abrasion Resistant & RoHS Compliant*)
- ▶ **Recommended RJ45 Connector;** ezEX38, **Waterproof RJ45 Splice Coupler;** 740C, **Bulkhead Coupler;** 741C, **RJ45 Housing;** 742C  
 (All recommended Connector, Coupler & Housing are manufactured by Platinum Tools)
- ▶ **Nominal Cable Diameter (in):** 0.275
- ▶ **Temperature Rating (°F):**  
 Installation: -4 to +140  
 Storage & Operation: -40 to +140
- ▶ **Operating Voltage:** 300V Max
- Conductor Color Code**  
**Pair 1:** Blue - White/Blue  
**Pair 2:** Orange - White/Orange  
**Pair 3:** Green - White/Green  
**Pair 4:** Brown - White/Brown

## FEATURES & BENEFITS

- ▶ Cable is durable and easy to install, tried and proven materials are carefully chosen for long-term use
- ▶ Outdoor Direct Burial, Outside Plant suitable for wet location
- ▶ For applications that require Optimum Cat 6 Performance with flexibility for the future
- ▶ Protect against environmental elements that can cause electrical performance failure
- ▶ Third-party verified for guaranteed performance and RoHS compliance
- ▶ RhinoPac® packaging prevents cable tangling, crushing, and water damage
- ▶ 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, 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 HDBASE-T extender between a source and display, RS-422 IEEE 802.3af(PoE)/IEEE 802.3at(PoE+)

## STANDARD COMPLIANCES

- ▶ ANSI/TIA 568.2-D
- ▶ ISO/IEC 11801(Category 6)
- ▶ MIL-C24640A Water Penetration Requirements
- ▶ RoHS 3 (EU 2015/863)
- ▶ NEMAWC63.1 (Category 6)

## CERTIFICATIONS



UL and/or ETL certified, or tested by other agencies

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

## ELECTRICAL PERFORMANCE

Max Capacitance (nF/100m @ 1kHz)	Max DC Resistance ( $\Omega$ /100m @ 68°F)	Max Delay Skew (ns/100m)	Nom Velocity of Propagation (%)	Characteristic Impedance ( $\Omega$ @ 1-100MHz)
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)
1	2.0	74.3	72.3	20.0
4	3.8	65.3	63.3	23.0
8	5.3	60.8	58.8	24.5
10	6.0	59.3	57.3	25.0
16	7.6	56.2	54.2	25.0
20	8.5	54.8	52.8	25.0
25	9.5	53.3	51.3	24.3
31.25	10.7	51.9	49.9	23.6
62.5	15.4	47.4	45.4	21.5
100	19.8	44.3	42.3	20.1
155	25.2	41.4	39.4	18.8
200	29.0	39.8	37.8	18.0
250	32.8	38.3	36.3	17.3
300	36.4	37.1	35.1	16.8
350	39.8	36.1	34.1	16.3
400	43.0	35.3	33.3	15.9