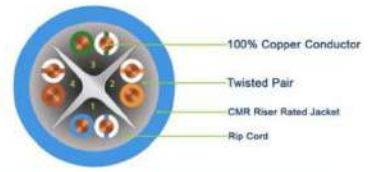


**PART NUMBER: 1259**

**SySPEED® Premium Network Ethernet/IP Cable  
Cat 6E Unshielded Twisted Pair (UTP) 4 Pair 23 AWG  
Plenum Rated-CMP, FT6**



## CHARACTERISTICS

- |   |  |   |
|---|--|---|
| <ul style="list-style-type: none"> <li>▶ <b>Conductor:</b> 23 AWG Solid Bare Annealed Copper</li> <li>▶ <b>Insulation:</b> FEP (Premium Fluoropolymer)</li> <li>▶ <b>Spline:</b> Premium Polyolefin</li> <li>▶ <b>Rip Cord:</b> Applied Longitudinally Under Jacket</li> <li>▶ <b>Jacket:</b> Plenum PVC (<i>Low Smoke, Flame-Retardant, &amp; RoHS Compliant</i>)</li> </ul> | <ul style="list-style-type: none"> <li>▶ <b>Nominal Cable Diameter (in):</b> 0.240</li> <li>▶ <b>Temperature Rating (°F):</b><br/>Installation: +32 to +140<br/>Storage &amp; Operation: -4 to +167</li> <li>▶ <b>Operating Voltage:</b> 300V Max</li> </ul> | <p><b>Conductor Color Code</b></p> <ul style="list-style-type: none"> <li><b>Pair 1:</b> Blue - White/Blue</li> <li><b>Pair 2:</b> Orange - White/Orange</li> <li><b>Pair 3:</b> Green - White/Green</li> <li><b>Pair 4:</b> Brown - White/Brown</li> </ul> |
|---|--|---|

## FEATURES & BENEFITS

- ▶ Cable is flexible and easy to install
- ▶ RhinoPac® packaging prevents cable tangling, crushing, and water damage
- ▶ For applications that require Optimum Cat 5e 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



## 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 HD BASE-T extender between a source and display, RS-422 IEEE 802.3af (PoE) / IEEE 802.3at (PoE+)

## STANDARD COMPLIANCES

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>▶ ANSI/TIA 568.2-D</li> <li>▶ ANSI/TIA 862 (Building Automation)</li> <li>▶ ISO/IEC 11801 Ed. 2.0 (Class E)</li> <li>▶ ICEA 5-102-700 (Category 6)</li> <li>▶ NEC / CEC Type CMP (NFPA 262) for Plenum</li> </ul> | <ul style="list-style-type: none"> <li>▶ RoHS 3 (EU 2015/863)</li> <li>▶ UL 444</li> </ul> |
|--|--|

## 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 (Ω/100m @ 68°F)	Max Delay Skew (ns/100m)	Nom Velocity of Propagation (%)	Characteristic Impedance (Ω @ 1-100MHz)
5.6	9.38	45	73.2	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
500	48.9	33.8	31.8	15.2
550	51.8	33.2	31.2	14.9
600	54.5	32.6	30.6	14.7

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