



## Specification for Hyper-Data 1000 CAT5e FTP Stranded PVC Lan Cable

Spec. No. S880930 Version: F Date: March 25<sup>th</sup>, 2008

UL444 & CSA C22.2 No. 214: Type CM, 26 AWG x 4P

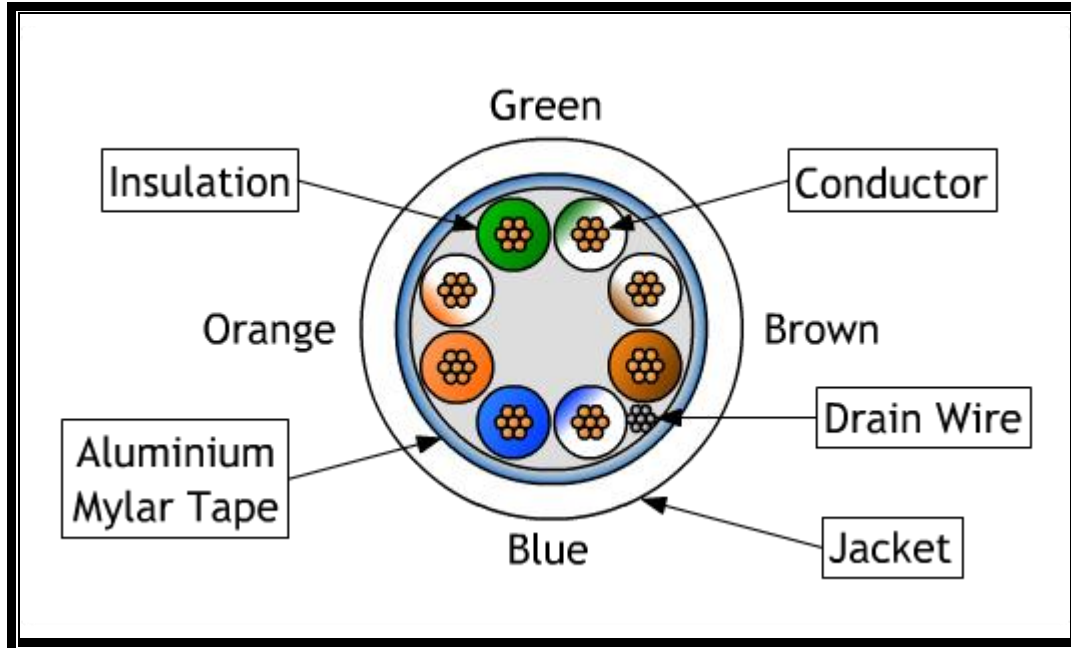
ISO/IEC 11801: Patch Cable (Stranded Conductor)

1. **Conductor:** Stranded Bare Copper (7 x 34 AWG)
  
2. **Insulation :** HDPE (CMI-75E)  
Nominal Wall Thickness: 0.201mm  
Min. Thickness: 0.175mm
  
3. **Color Code:**  
Pair 1: Blue & White/Blue  
Pair 2: Orange & White/Orange  
Pair 3: Green & White/Green  
Pair 4: Brown & White/Brown
  
4. **Shield:** Aluminum-Mylar Tape + Tinned Copper Drain Wire (7 x 34 AWG)
  
5. **Jacket:** 75 °C PVC Compound (CMI-80S)  
Nominal Wall Thickness: 0.585mm  
Min. Thickness: 0.458mm  
Overall Diameter: 5.6mm ± 0.3mm
  
6. **Electric Requirements:** (Cable length: 100m)  
Characteristic Impedance( $Z_0$ ): 85 ~ 115 $\Omega$  (1 ~ 100 MHz)  
DC. Resistance Capacitance Unbalance: 5%  
Pair-to-Ground Capacitance Unbalance: 330 pF/100m Max.  
Conductor Resistance: 14.00 $\Omega$ /100m 20°C Max.  
Mutual Capacitance: 5.6nF/m Max.  
Spark Test: 2.5kV  
Nominal Velocity of Propagation (NVP): 76%

RoHS Compliant



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Frequency MHz	Att. Stranded	Pr-Pr NEXT	PS NEXT	Prop. Delay ns	Delay Skew ns	Return Loss	Pr-Pr ELFEXT	PS ELFEXT
1	3.2	65.3	62.3	538.5	45	20.0	63.8	60.8
10	9.9	50.3	47.3	545.0	45	25.0	43.8	40.8
16	12.3	47.3	44.4	539.9	45	25.0	39.7	36.7
20	13.8	45.8	42.8	540.2	45	25.0	37.7	34.7
25	15.6	44.4	41.3	540.8	45	24.2	35.8	32.8
31.25	17.7	42.9	39.9	541.4	45	23.3	33.9	30.9
62.5	25.6	38.4	35.4	542.5	45	20.7	27.8	24.8
100	33	35.3	32.3	543.0	45	19.0	23.8	20.8