

CBPL-FN

Specification for Hyper-Data 1000

Cat.5e STP(FTP) Solid Lan Cable

Spec. No. S1000527 Version: A

Date: May 27, 2011

UL 444 & CSA-C22.2 No.214: Type CM, 24AWG x 4P
ISO/IEC 11801: Horizontal Cable (Solid Conductor)

1. Conductor: Solid Bare copper (1 x AWG24)

2. Insulation : HDPE(CMI-75E)

Min. Avg. Thickness: 0.201 mm;

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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: drain wire(tinned copper conductor) and aluminum-mylar tape.

5. Jacket: 75°C PVC Compound (CMI-80S)

Min. Avg. Thickness: 0.585 mm;

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Overall diameter : 5.8 mm +/- 0.3mm

6. Electric Requirements: (Cable length: 100-300M)

Characteristic Impedance(Z_0): 85~115 Ω (1~100 MHz)

DC. Resistance Capac. Unbalance: 5%

Pair-to-Ground Capac. Unbalance: 330 pF/100M Max

Conductor Resistance: 9.38 Ω / 100M 20°C Max

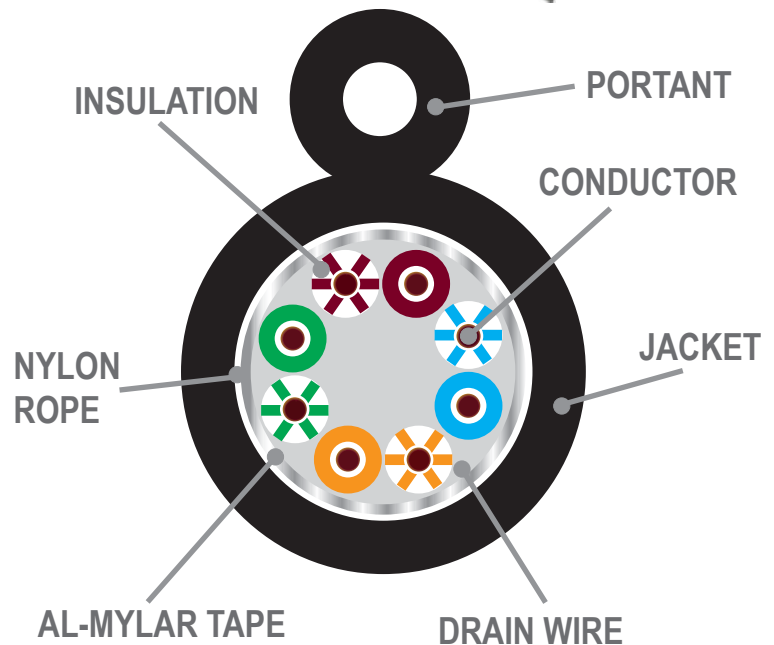
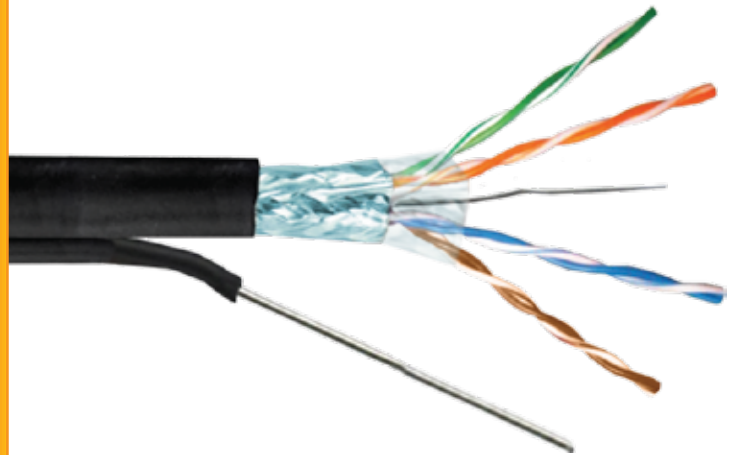
Mutual Capacitance: 5600 pF/100m Max

Spark Test: 2.5KV

Nominal Velocity of Propagation (NVP): 70 %



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Frequency	Att.	Pr-Pr	PS	Prop.	Delay	Return	Pr-Pr	PS
MHz	Solid	NEXT	NEXT	Delay ns	Skew ns	Loss	ELFEXT	ELFEXT
1	2.8	65.3	62.3	538.5	45	20.0	63.8	60.8
10	7.9	50.3	47.3	545.0	45	25.0	43.8	40.8
16	9.4	47.3	44.4	539.9	45	25.0	39.7	36.7
20	10.7	45.8	42.8	540.2	45	25.0	37.7	34.7
25	11.8	44.4	41.3	540.8	45	24.3	35.8	32.8
31.25	13.4	42.9	39.9	541.4	45	23.6	33.9	30.9
62.5	18.9	38.4	35.4	542.5	45	21.5	27.8	24.8
100	24.2	35.3	32.3	543.0	45	20.1	23.8	20.8