

**Description :**

**Conductor**

24AWG x 25 Pairs (0.50 mm) Solid Bare Copper Wire

**Insulation : PE**

Insulation Thickness : 0.19 mm

Insulation Diameter : 0.88 mm

**Construction**

5 Pair Twisted Together (Total 5 Group),  
5 Group Twisted Together with Mylar Tape

**Jacket :**

Flame Retardant PVC Jacket

Nominal Diameter Over Jacket : 12.90 mm

Nominal Jacket Thickness : 0.80 mm

Voltage Rate : 300V

Temperature Rate : 75°C

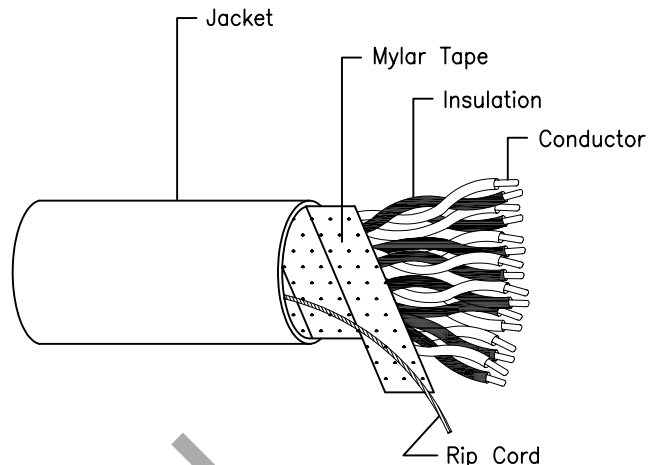
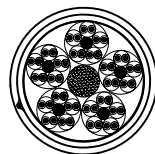
**Qualifications & Approvals :**

TIA/EIA-568-B.2 Cat.5e

UL CMR

CSA CMG FT4

Minimum bending radius : O.D. x 8 (103.2 mm)



**ELECTRICAL PROPERTIES :**


Impedance : 100 ±15 Ohms

Velocity of propagation : 69% Nominal

Propagation Delay Skew : 45ns/100m

**ATTENUATION : @ 68 °F (20 °C)**

F (MHz)	Attenuation (dB/100m)	NEXT (dB)	PS-NEXT (dB)	ACR (dB/100m)	PS-ACR (dB/100m)	ELFEXT (dB/100m)	PS-ELFEXT (dB/100m)	RETURN LOSS (dB)
1	1.9	71	68	69.1	66.1	68	65	20
4	3.7	62	59	58.3	55.3	56	53	23
10	6.0	56	53	50.0	47.0	48	45	25
16	7.6	53	50	45.4	42.4	44	41	25
20	8.5	51	48	42.5	39.5	42	39	25
31.2	10.7	49	46	38.3	35.3	38	35	24
62.5	15.7	44	41	28.3	25.3	32	29	22
100	19.8	41	38	21.2	18.2	28	25	20

Designed by date	Checked by - date	Approved by - date	Date 21/09/2009	Size A4	Scale -
 HOSIWELL TECHNOLOGY CO., LTD.			Part Name Cat.5e UTP Backbone Cable	Unit -	
			Part No. 30031-CC	Issued 1	
			Ref. No.	Sheet 1 of 1	
			Used On.		