

## Product Specifications

<b>Product Family</b>	Zybrnet
<b>Category</b>	Cat.5e
<b>Product</b>	Cat. 5e U/UTP 26AWG X 4P (Stranded)
<b>Item no.</b>	010.01.702xxx
<b>Edition</b>	1.0



## Approvals

TIA/EIA-568.2-D ISO/IEC 11801 EN50288-3-2 IEC 603332-1-2

## Compliance

RoHS Compliant. EU Directive 2002/95/EC 

## Applications & Features

✔ 10 Colors 
 ✔ Bandwidth up to 100MHz 
 ✔ 100Base-TX

## Product codes by length & color

Length meter	Product code 010.01.702xxx									
	Grey	Red	Green	Blue	Yellow	Black	Orange	Purple	Pink	White
<b>0.5</b>	003	103	203	303	403	503	-	-	-	-
<b>1.0</b>	007	107	207	307	407	507	607	707	807	907
<b>1.5</b>	011	111	211	311	411	511	-	-	-	-
<b>2.0</b>	015	115	215	315	415	515	615	715	815	915
<b>3.0</b>	019	119	219	319	419	519	619	719	819	919
<b>5.0</b>	025	125	225	325	425	525	625	725	825	925
<b>7.5</b>	031	131	231	331	431	531	-	-	-	-
<b>10.0</b>	037	137	237	337	437	537	-	-	-	-
<b>15.0</b>	047	147	247	347	447	547	-	-	-	-
<b>20.0</b>	057	-	-	-	-	-	-	-	-	-
<b>30.0</b>	069	169	269	369	469	569	-	-	-	-



**Construction & Dimensions**

**Conductor**

Size  
 Material  
 Construction

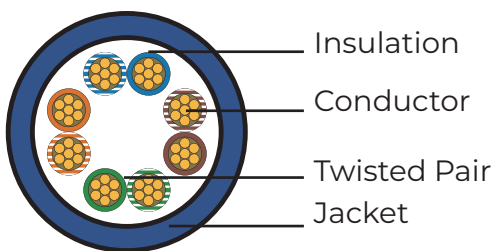
26 AWG X 4P  
 Bare Copper Stranded  
 7 / 0.16 mm

**Insulation**

Material  
 Diameter  
 Thickness  
 Identification

HDPE  
 0.78 mm  
 0.14 mm  
 1. Orange x White / Orange  
 2. Green x White / Green  
 3. Blue x White / Blue  
 4. Brown x White / Brown

**Cross section**



**Core Assembly**

Core twist  
 Assembly pair

2 Core twist  
 4 Pair assembly

**Jacket**

Material  
 Thickness  
 Overall diameter  
 Color  
 Length









PVC  
 0.65 mm  
 4.8 ± 0.2 mm  
 Multiple colors - See table Page 1  
 Multiple lengths - See table Page 1

**Plug - 8P8C RJ45**

Material  
 Color

PC  
 Transparent

**Wire Pinout**

RJ 45 Pin	Wire Color	Wire Diagram	Signal
1	White/Orange		Transmit+
2	Orange		Transmit-
3	White/Green		Receive+
4	Blue		Unused
5	White/Blue		Unused
6	Green		Receive-
7	White/Brown		Unused
8	Brown		Unused

**Electrical & Physical properties**

Operating Voltage  
 Conductor Resistance  
 Characteristic impedance  
 Spark Test  
 Propagation skew

72 V DC  
 <140 Ω/km @ 20°C  
 100 ± 15 Ω  
 2.5 KV  
 <45 ns/100m

Installation temperature  
 Operating temperature  
 Minimum bending radius

0°C to 50°C  
 -10°C to 75°C  
 ≥ 8 times of overall diameter


**Marking**

TYPE CM 75°C CAT.5E U/UTP PATCH ETL VERIFIED TO ANSI/TIA-568-C.2 &  
 ISO/IEC 11801 ED.2 & EN 50288-3-2 & IEC 60332-1-2 WWYY PRESTAQ

Frequency MHz	I.L. MAX. dB	R.L. MIN. dB	NEXT MIN. dB/100m	PSNEXT MIN. dB	ELFEXT MIN. dB	PSELFEXT MIN. dB
1.00	2,4	20,0	65,3	62,3	63,8	60,8
4.00	4,9	23,0	56,3	53,3	51,8	48,8
8.00	6,9	24,5	51,8	48,8	45,7	42,7
10.00	7,8	25,0	50,3	47,3	43,8	40,8
16.00	9,9	25,0	47,2	44,2	39,7	36,7
20.00	11,1	25,0	45,8	42,8	37,8	34,8
25.00	12,5	24,2	44,3	41,3	35,8	32,8
31.25	14,1	23,3	42,9	39,9	33,9	30,9
62.50	20,4	20,7	38,4	35,4	27,9	24,9
100.00	26,4	19,0	35,3	32,3	23,8	20,8

*Electrical Performance*