

Product Specifications

Product Family	Zybrnet
Category	Cat.5e
Product	Cat. 5e U/UTP PVC 24AWG X 4P (Solid) Eca
Item no.	010.03.701031
Edition	1.0



Approvals

UL444 Certified ANSI/TIA-568.2-D CMG ETL Verified

Compliance

RoHS Compliant. EU Directive 2002/95/EC



Applications & Features

- ✔ 10Base-T
- ✔ Fast Ethernet 100Mbps
- ✔ NPV value 62%

Construction & Dimensions

Conductor

Size

Material

Construction

Insulation

Material

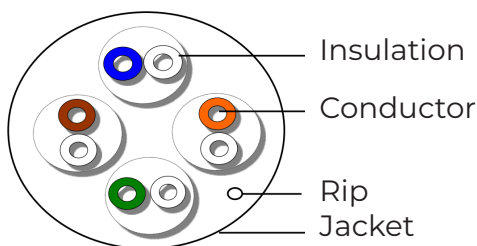
Min. Average thickness

Min. thickness at any point

Diameter

Identification

Cross section



24 AWG X 4P

Annealed Bare Copper

1 / 0.49 ± 0.01mm

HDPE

0.19 mm

0.18 mm

0.87 ± 0.03mm

1. Blue x White / Blue

2. Orange x White / Orange

3. Green x White / Green

4. Brown x White / Brown

Core Assembly

Core twist

Slot

Assembly pair

Jacket

Material

Min. average thickness

Min. thickness at any point

Overall diameter

Color

2 Core twist

N.A.

4 Pair assembly

PVC

0.45 mm

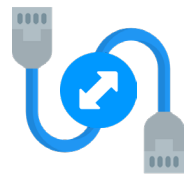
0.43 mm

5 ± 0.2 mm

Gray / Other Color

Electrical & Physical properties

Rating Temp	75 °c
Conductor Resistance	9.38 Ω/100m 20 °c Max.
Mutual Capacitance	5.6 nF/m Max.
DC. Resistance Unbalance	5% Max.
Pair-to-Ground Capacitance Unbalance	330 pF/100m Max.
Dielectric Strength	AC 1.5kv / 2sec
Spark Test	2.5 KV
Cold Bend Test	-20 °c x 4hrs No Crack.
Insulation	
Unaged	
Tensile strength	2400 PSI Min. (1.68kg/mm2)
Elongation	300% Min.
Aged	
Tensile strength	Min. 75% (100°C x 48 hrs)
Elongation	Min. 75% (100°C x 48 hrs)
Jacket	
Unaged	
Tensile strength	2000 PSI Min.(1.41kg/mm2)
Elongation	100% Min.
Aged	
Tensile strength	Min.85% (100°C x 240 hrs)
Elongation	Min. 50% (100°C x 240 hrs)
Installation temperature	0°C to 60°C
Operating temperature	-20°C to 60°C
Minimum bending radius	≥ 4 times of overall diameter
Maximum pulling tension	≤ 110 N
NPV value	62%



Marking 010.03.70103X Class Eca U/UTP CAT.5E TYPE CM 24AWG 4PR SOLID 75°c
 CMG ETL VERIFIED ANSI/TIA-568.2-D PRESTAQ YYWW XXXM

Frequency MHz	R.L. MIN. dB/100m	Att. MAX. dB/100m	NEXT MIN. dB/100m	PSNEXT MIN. dB/100m	ACRF MIN. dB/100m	PSACRF MIN. dB/100m	Propagation MAX. ns/100m
1.00	20.0	2.0	65.3	62.3	63.8	60.8	570.0
4.00	23.0	4.0	56.3	53.3	51.7	48.7	552.0
8.00	24.5	5.8	51.8	48.8	45.7	42.7	546.7
10.00	25.0	6.5	50.3	47.3	43.8	40.8	545.4
16.00	25.0	8.2	47.3	44.3	39.7	36.7	543.0
20.00	25.0	9.3	45.8	42.8	37.7	34.7	542.0
25.00	24.3	10.4	44.3	41.3	35.8	32.8	541.2
31.25	23.6	11.7	42.9	39.9	33.9	30.9	540.4
62.50	21.5	17.0	38.4	35.4	27.8	24.8	538.6
100.00	20.1	22.0	35.3	32.3	23.8	20.8	537.6

Electrical Performance