

Product Specifications

Product Family	Zybrnet 500
Category	Cat.6
Product	Cat. 6 U/UTP 24AWG Solid Outdoor cable
Item no.	ZN500BC11605000G
Edition	1.0



Approvals

UL444 Certified ANSI/TIA-568-C.2 IEC 61156-5

Compliance

RoHS Compliant. EU Directive 2002/95/EC



Applications & Features

- ✓ Moisture & Rain Resistant
- ✓ 1000Mbit/s
- ✓ NVP value 67%
- ✓ UV-Resistant

Construction & Dimensions

Conductor

Size
Material
Construction

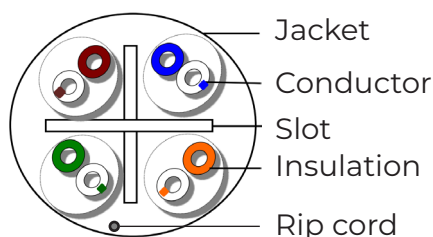
24 AWG X 4P
Solid Bare Copper
1 / 0.52 ± 0.02mm

Insulation

Material
Diameter
Identification

PE
0.92 ± 0.05mm
1. Blue x White / **Blue**
2. Orange x White / **Orange**
3. Green x White / **Green**
4. Brown x White / **Brown**

Cross section



Core Assembly

Core twist
Slot
Assembly pair

2 Core twist
PE
4 Pair assembly

Jacket

Material
Min. thickness at any point
Overall diameter
Color
Rip Cord

LD-PE
0.6 mm
5.8 ± 0.3 mm
Black
Yes

Electrical & Physical properties

Rating Temp
Conductor Resistance
Mutual Capacitance
DC. Resistance Unbalance
Pair-to-Ground Capacitance Unbalance
Operating Voltage
Insulation resistance
Cold Bend Test

75 °c
9.38 Ω/100m (20°C) Max.
5.6 nF/m Max.
5% Max.
330 pF/100m Max.
300 V
5000 MΩ/km
-20 °c x 4hrs No Crack.



Jacket

Unaged

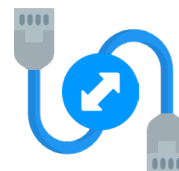
Tensile strength
Elongation

Aged

Tensile strength
Elongation

9.7 MPa
350% Min.

Min.75% (100°C x 48 hrs)
Min. 75% (100°C x 48 hrs)



Installation temperature
Operating temperature
Minimum bending radius
Maximum pulling tension
Delay Skew
NVP value

0°C to 50°C
-20°C to 75°C
≥ 4 times of overall diameter
≤ 110 N
45 ns/100m
67%

Marking

ZYBRNET CAT.6 4PR 24AWG SOLID U/UTP PE 75° UV RESISTANCE
YYMMDDJJNN PRESTAQ XXXM *(XXX Meter marking 500 to 0)

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
4.00	23,0	3,8	66,3	63,3	56,0	53,0	552,0
10.00	24,5	6,0	60,3	57,3	48,0	45,0	545,4
16.00	25,0	7,6	57,2	54,2	43,9	40,9	543,0
20.00	25,0	8,5	55,8	52,8	42,0	39,0	542,0
31.25	23,6	10,7	52,9	49,9	38,1	35,1	540,4
62.50	21,5	15,5	48,4	45,4	32,1	29,1	538,6
100.00	20,1	19,9	45,3	42,3	28,0	25,0	537,6
200.00	18,0	29,1	40,8	37,8	22,0	19,0	536,5
250.00	17,3	33,0	39,3	36,3	20,0	17,0	536,3

Electrical Performance