

Product Specifications

Product Family	Zybrnet 10G
Category	Cat.6A
Product	Cat. 6A F/FTP 23AWG Solid LSZH Cca 500M
Item no.	ZN606605000
Edition	1.0



Approvals

UL444 Certified ANSI/TIA-568.2-D IEC 660332

Compliance

RoHS Compliant. EU Directive 2002/95/EC



Applications & Features

✓ Flame rate: Cca -s1a, d2, a1
✓ 10Gb Ethernet
✓ Certified up to 500MHz

Construction & Dimensions

Conductor

Size
Material
Dimension

23 AWG X 4P

Solid Bare Copper

1 / $0.566 \pm 0.02\text{mm}$

Insulation

Material
Diameter
Identification

Foam PE

 $1.28 \pm 0.05\text{mm}$

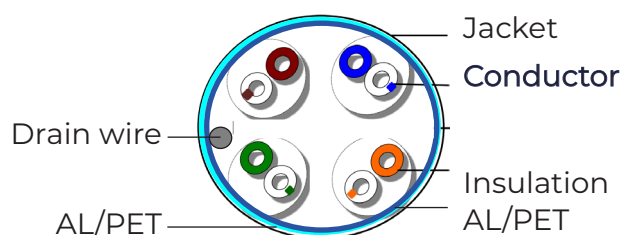
1. Blue x White / **Blue**

2. Orange x White / **Orange**

3. Green x White / **Green**

4. Brown x White / **Brown**

Cross section



Core Assembly

Core twist
Construction
Assembly pair

2 Core twist

F/FTP

4 Pair assembly

Jacket

Material
Min. average thickness
Overall diameter
Color

LSZH

0.50 mm

 $7.2 \pm 0.4 \text{ mm}$

Grey

Shield

Primary Material
Coverage
Drain wire

AL/PET

100%

1/26 AWG solid tinned copper

Electrical & Physical poperties

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

Jacket

Unaged

Tensile strength
Elongation

Aged

Tensile strength
Elongation

UV Resistance (UL1581-1200)

Tensile strength
Elongation

Installation temperature

Operating temperature

Minimum bending radius

Maximum pulling tension

Delay Skew

9.5 Ω /100m 20 °c Max.

5.6 nF/m Max.

5% Max.

160 pF/100m Max.

300 V

5000 M Ω /km

-20 °c x 4hrs No Crack.



8.3 MPa

100% Min.

Min. 75% (UL444)

Min. 75% (UL444)

Min. 80% before aging

Min. 80% before aging

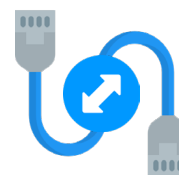
0°C to 50°C

-20°C to 75°C

≥ 8 times of overall diameter

≤ 80 N

45 ns/100m



Marking

ZN606605000 EUROCLASS Cca-s1a, d2, a1 ZYBRNET 10G CAT. 6A 4PR
 23AWG SOLID F/FTP IEC60332 LSZH PRESTAQ ***M
 (***)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	5,93	60,3	57,3	48,0	45,0	546,7
16.00	25,0	7,49	57,2	54,2	43,9	40,9	543,0
20.00	25,0	8,38	55,8	52,8	42,0	39,0	542,0
31.25	23,6	10,50	52,9	49,9	38,1	35,1	540,4
62.50	21,5	14,99	48,4	45,4	32,1	29,1	538,6
100.00	20,1	19,14	45,3	42,3	28,0	25,0	537,6
200.00	18,0	27,58	40,8	37,8	22,0	19,0	536,5
250.00	17,3	31,07	39,3	36,3	20,0	17,0	536,3
300.00	17,3	34,27	38,1	35,1	18,5	15,5	536,1
400.00	17,3	40.05	36,3	33,3	16,0	13,0	535,8
500.00	17,3	45.26	34,8	31,8	14,0	11,0	535,6

Electrical Performance