



HENGTONG GROUP

JIANGSU HENGTONG WIRE&CABLE TECHNOLOGY CO.,LTD

Technical Specification Of SBYV-100 32P 26AWG Cable

Specification: SBYV-100 32 × 2 × 0.4

Description

Reference standard: YD/T 838.2-1997
 Solid annealed bare copper conductor
 PE Insulation
 PVC Jacket
 32 Pair Cable

Construction

Conductor : Solid Annealed Bare Copper
 Nom. Dia.(mm) 0.4

Insulation : HDPE
 Nom.Thickness(mm) 0.16
 Insulation Dia.(mm) 0.72 ± 0.03

Pair Twist

Twist patch(mm) 75

Color (The 8 pairs Basic unit)

The first and third unit	The second and fourth unit
1. White-Blue	9. Red-Brown
2. White-Orange	10. Red-Grey
3. White-Green	11. Black-Blue
4. White-Brown	12. Black-Orange
5. White-Grey	13. Black-Green
6. Red-Blue	14. Black-Brown
7. Red-Orange	15. Black-Grey
8. Red-Green	16. Yellow-Blue

Cabling

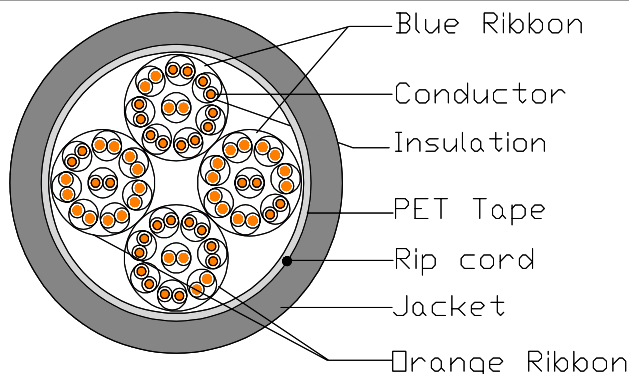
Construction Stranding Concentric
 binding patch(mm) 50
 PET Min.Thickness(mm) 0.025
 PET Wrap overlapping 25%

Jacket

PVC
 Nom.Thickness(mm) 0.7
 Out Dia.(mm) 10.10±0.4

Color PANTONE 430U
 Oxygen Index 30
 Hardness: 78 ± 3 Shore A
 The cable Net weight(kg/km) 151

CROSS SECTION



Marking

Jacket

E256189 (UL) TYPE CM SBYV-100 32*2*0.4 HENGTONGGROUP yyyy Zm xxxx

yyyy - The year and month of manufacture z - Length marking

xxxx - Cable code

Performance

Electrical Characteristics (20 °C)

1. Conductor DC Resistance	145Ω/km
2. Resistance Unbalance	5%
3. Dielectric Strength DC	1000V/1min
4. Insulation DC Resistance	5000MΩ·km
5. Character Impedance (1MHz ~ 8MHz)	100±15Ω
6. Mutual capacitance (1kHz)	56nF/km
7. Unbalance Capacitance Pair to Pair	1KHz 300pF/500km
8. Attenuation (dB/100m)	
at 1MHz	2.7
at 2MHz	3.8
9. NEXT (dB/100m)	
at 1MHz	56
at 2MHz	51
at 8MHz	42
10. ELFEXT (dB/100m)	
at 1MHz	53

Physical Properties

1. Conductor tensile strength	200MPa
2. Conductor elongation	15%
3. Insulation tensile strength	10MPa
4. Insulation elongation	300%
5. Insulation hot shrinkage(-20 ± 2 ×1h)	5%
6. Jacket tensile strength	12.5MPa
7. Jacket elongation	200%
Aging condition	100±2 ×168h
8. Aged Insulation tensile strength	10MPa
9. Aged Insulation elongation	300%
10. Aged Jacket tensile strength	12.5MPa
11. Aged Jacket elongation	125%
12. Aged Jacket tensile strength variety rate	±20%
13. Aged Jacket elongation variety rate	±20%
14. Insulation Low Temperature Bend (-20±2 °C, 1h Core axis diameter:6mm)	no crack
15. Cold Bend (-20±2 °C, 4h Core axis diameter:8 time of outer diameter)	no crack
16. Flammability	Section 1160 of UL 1581
17. Accord with ROHS standard	

Product No.

Huawei:

Revision History

First revision on Jun 02,2008

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