

PBNcable Category 6 S-FTP Double Jacket

- Complies to all Category 6 cable standards
- Supports Class E applications
- Central cross member maintains geometry and performance
- Tested up to 250MHz

GENERAL

This specification details the construction of **Cat**egory **6** network cable. The conductors are solid copper, covered with a solid plastic insulating compound. The insulated conductors (four twisted pairs) are inside cable core. The cable structure is completed with two layer jacket for inner jacket is LS PVC jacket and outer PE jacket .The cable is fully color coded so that each insulated conductor in the cable is distinguishable from

other insulated conductor. Cat-6 cable supports frequencies up to 250 MHz.

Applications: PBN cables cat-6 SFTP cable is intended for high speed

Data applications including:

- 10baseT Ethernet
- 100baseTX Fast Ethernet
- 1000baseTX Gigabit Ethern
- 155 MBit ATM
- 622 MBit ATM
- 1.2 Gbit ATM

TEMPERATURE AND ENVIRONMENT

The cables shall without detriment, perform suitably throughout a temperature range of -20 to +40 C.



CONDUCTOR

Each conductor is a solid wire of commercially pure annealed copper, smoothly drawn, circular in cross section, uniform in quality and free form defects. Conductors meet the quality requirements of ASTM B3. The maximum resistance for a cross section area of 1 mm² and a length of 1 km is 70 ohms when measured at 20±2 °C.

The nominal conductor diameters may be 0.59mm (23 AWG).

TWISTING

Two appropriately colored insulated conductors are uniformly twisted together to form a pair. The lays of all pairs are in the same direction and different for each pair in a unit

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All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation is indicative only and shall not be binding on PBN or be treated as constituting a representation on the part of PBN.



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CONDUCTOR INSULATION

Each conductor is uniformly covered with solid polyethylene conforming to ASTM D-1248. Type III class A category 4 or 5 Grade E8. Insulation contains a suitable antioxidant system including a copper inhibitor. The insulation will be uniform, smooth and have non-porous surface.

Insulation Thickness (mm)	Insulation Diameter(mm)	Cable Diameter (mm)	Insulation Material
0.28	1.13	0.9	PE

The insulation colors are in accordance with the following table (1).

Table 1

Number Pairs	Color Coded
1	White – Blue / Blue
2	White – Orange / Orange
3	White – Green / Green
4	White – Br-own / Brown

RIP CORD

The rip cords will be placed over the core under the jacket and must be strong and flexible enough to be able to strip or the jackets easily

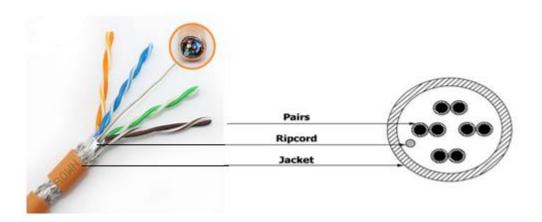
JACKET

A polyvinyl chloride jacket in accordance with polyvinyl chloride (PVC) conforming to DIN VDE 0207 part 4 designating YI3.. The nominal jacket thickness will be 0.7mm for all cables. The outer jacket color is orange.

IDENTIFICATION MARKING

Each length of the cable shall be permanently identified as to the manufacturer, year of manufacture and cable type. The marking will be printed on the outer jacket.

CABLE FORMATION



The insulation colors are in accordance with the following table (1).

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Cable ID: PBN-L-TEST SFTP

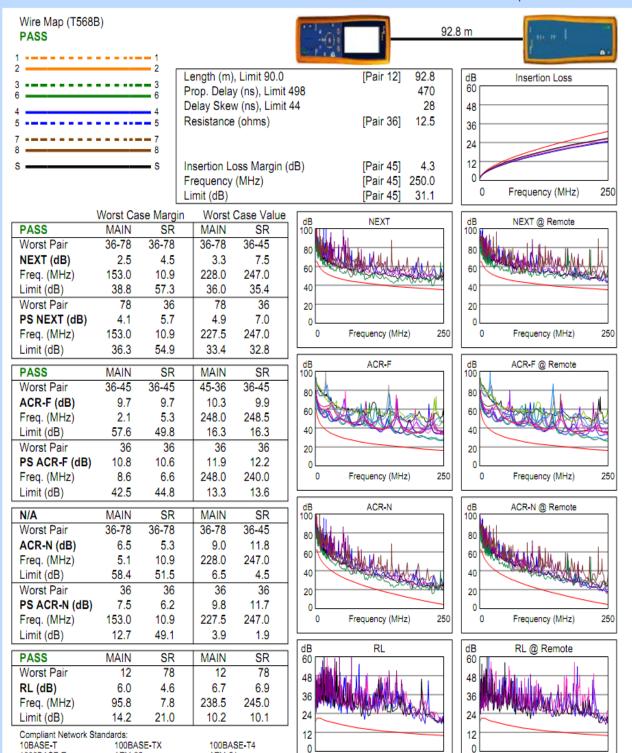
Date / Time: 11/11/2018 11:25:02am Headroom: 4.6 dB (RL 78) Test Limit: TIA Cat 6 Perm. Link Cable Type: Cat 6 SFTP

Operator: MR AHANI Software Version: 2.4100 Limits Version: 1.6000

NVP: 70.0%

Test Summary: PASS

Model: DTX-1800 Main S/N: 9419079 Remote S/N: 9419080 Main Adapter: DTX-PLA002 Remote Adapter: DTX-PLA002



Frequency (MHz)

Project: DEFAULT Site: TEST

1000BASE-T

TR-16 Active

ATM-155

ATM-25

100VG-AnyLan

TR-16 Passive

FLUKE

Frequency (MHz)

250

LinkWare Version 6.2

ATM-51

TR-4