

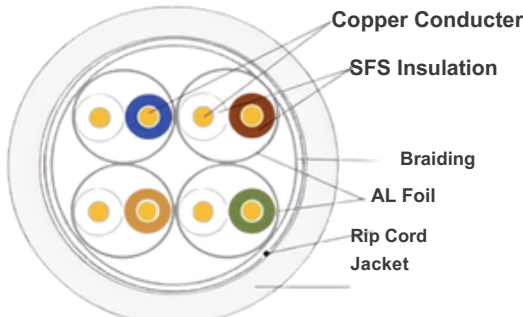
# Cat7 Plenum Shielded Solid Bare Copper

**SKU: TS-PBC/7**

23AWG • 4 Twisted Pairs • CMP •  
S/FTP 850MHz •  
Solid Bare Copper



## CAT7 SHIELDED (S/FTP)

|                                                                                                                                                                                                             |                                                                   |                                                              |                                                                                                                                                                                                                 |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| <b>Product Description:</b><br>Bare solid copper conductor Rated temperature:<br>60 °C, 75 °C, 90 °C Reference Standard:UL444,UL13,<br>IEC60332 Complies to TIA/EIA-568C&ISO/IEC 11801<br>IEC61156, EN50288 |                                                                   |                                                              | <b>Application:</b><br>VOLP, ISDN, Token, 100MTPPDM Analong and<br>DataVideo, TR-16Active and Passive<br>155M/662m/1.2GATM&IEEE802.3:100Base 100Base-T,<br>1000Base-T, 10GBase-T                                |  |  |
| Category                                                                                                                                                                                                    | UTP CAT7 FFTP 4PR 23AWG                                           |                                                              |                                                                                                                                                                                                                 |  |  |
| Conductor                                                                                                                                                                                                   | Material<br>Nom.O.D(mm)                                           | Bare solid copper<br>0.565±0.005mm                           |                                                                                                                                                                                                                 |  |  |
| Insulation                                                                                                                                                                                                  | Material<br>Diameter                                              | FORM PE<br>1.38±0.03mm                                       |                                                                                                                                                                                                                 |  |  |
| Core Color                                                                                                                                                                                                  | 1 White-Blue/Blue 2 White-Orange/<br>3 White- 4 White-Brown/Brown |                                                              |                                                                                                                                                                                                                 |  |  |
| Rip-cord                                                                                                                                                                                                    | Yes                                                               |                                                              |                                                                                                                                                                                                                 |  |  |
| Shield 1                                                                                                                                                                                                    | Each pair                                                         | Al foil                                                      |                                                                                                                                                                                                                 |  |  |
| Shield 2                                                                                                                                                                                                    | Total 4 pairs                                                     | thicker Al foil                                              |                                                                                                                                                                                                                 |  |  |
| Drain wire                                                                                                                                                                                                  | Material<br>Nom.O.D(mm)<br>Material                               | Tinned copper<br>0.4±0.005mm<br>PVC CMP level<br>Per request |                                                                                                                                                                                                                 |  |  |
| Sheath                                                                                                                                                                                                      | color<br><br>Nom.O.D(mm)                                          | Per request<br><br>7.8±0.1mm                                 |                                                                                                                                                                                                                 |  |  |
|                                                                                                                                                                                                             |                                                                   |                                                              | <b>S/FTP CAT7</b>                                                                                                                                                                                               |  |  |
|                                                                                                                                                                                                             |                                                                   |                                                              |                                                                                                                             |  |  |
|                                                                                                                                                                                                             |                                                                   |                                                              | <b>Electrical Characteristics (20°C )</b>                                                                                                                                                                       |  |  |
|                                                                                                                                                                                                             |                                                                   |                                                              | Capacitance(nF/100m)max: 5.6 DC<br>Resistance(Ω/100m) max :9.38<br>NVP 69%<br><br>1.0-250.0MHz Impedance(Ω) 100±15<br>1.0-250.0MHz Delay Shew (ns/100m)<br><br>DC Conductor Resistance<br>Unbalance(%)max : 5.0 |  |  |

## Electrical Characteristics

| Frequency (MHz) | Attenuation (dB/100m) | NEXT (dB/100m) | PSNEXT (dB) | Return loss (dB) | ELFEXT (dB/100m) | PSELFEXT (dB/100m) |
|-----------------|-----------------------|----------------|-------------|------------------|------------------|--------------------|
| 1               | 2.0                   | 78.0           | 75.0        | 20               | 78.0             | 75.0               |
| 4               | 3.7                   | 78.0           | 75.0        | 23               | 78.0             | 75.0               |
| 10              | 5.9                   | 78.0           | 75.0        | 25               | 74.0             | 71.0               |
| 16              | 7.5                   | 78.0           | 75.0        | 25               | 68.8             | 65.8               |
| 20              | 8.4                   | 78.0           | 75.0        | 25               | 67.8             | 64.8               |
| 31.25           | 10.4                  | 78.0           | 75.0        | 23.6             | 64.1             | 61.1               |
| 62.5            | 14.9                  | 75.6           | 72.4        | 21.5             | 58.1             | 55.1               |
| 100             | 19.1                  | 72.4           | 69.4        | 20.1             | 53.2             | 50.2               |
| 200             | 27.6                  | 67.9           | 64.9        | 18               | 48.0             | 45.0               |
| 250             | 30.9                  | 66.6           | 63.6        | 17.3             | 46.0             | 43.0               |
| 300             | 34.2                  | 65.3           | 62.3        | 17.3             | 44.5             | 41.5               |
| 400             | 40.1                  | 63.0           | 60.0        | 17.3             | 42.0             | 39.0               |
| 500             | 45.3                  | 61.9           | 58.9        | 17.3             | 40.0             | 37.0               |
| 600             | 50.1                  | 60.8           | 57.8        | 17.3             | 38.4             | 35.4               |





## Test Report

### Test Information

|                                 |                             |
|---------------------------------|-----------------------------|
| Test Time : 2021/10/24 03:05:39 | Temperature:21.5C           |
| Standard:IEC 61156-5 CAT7       | Test Result:Pass            |
| Cable Length:305m               | Cable Type:FFTP4 CAT7 BC-TS |
| Tester:LI                       | Cable ID:                   |

### Test Result List

| Test Item         | Unit    | Test Result |
|-------------------|---------|-------------|
| Attenuation Delay | dB/100m | Pass        |
| Delay Skew Input  | ns/100m | Pass        |
| Impedance Return  | ns/100m | Pass        |
| Loss NEXT PS      | Ohm     | Pass        |
| NEXT EL FEXT PS   | dB      | Pass        |
| EL FEXT           | dB@100m | Pass        |
|                   | dB@100m | Pass        |
|                   | dB@100m | Pass        |
|                   | dB@100m | Pass        |

