

DESCRIPTION

Hyperline brings Category 6 UTP – CMP cable performance to a new level. This cable meets and exceeds the performance requirements of ANSI/TIA-568.2-D, guaranteeing performance up to 250 Mhz tested to 550 MHz.

Hyperline Category 6 UTP – CMP cable demonstrates superior capability for 1000 Base-T applications and all other bandwidth intensive and legacy applications. When compared to TIA guidelines Hyperline cable meets or exceeds the specifications in every category. The overall construction comprised of 8 x 23-gauge solid bare copper cores, which are then insulated with a Fluorinated Ethylene Propylene (FEP) material and organized into four color coded twisted pair sets. Finally, the cable is protected by an overall outer flame-retardant jacket (CMP/FT6) for safety and durability

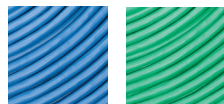
APPLICATIONS

- Structured cabling system applications – Including: 10Base -T, 100Base -T 1000Base -T and Token Ring
- Suitable for horizontal cabling system installations as well as creating consolidation points in the horizontal subsystem
- Suitable for installation in data centers, telecommunication rooms and network equipment areas
- This range of UTP cables is designed to support Cat 6 Permanent and Channel performance.

DESIGN FEATURES

- High performance rate of transmission
- High quality of safety properties
- Meets/exceeds ANSI/TIA-568.2-D specification
- Quick Count marking system in feet
- Lower cross talk due to superior design

AVAILABLE COLOURS



FLAME TEST

- NFPA 262 (CMP)

PERFORMANCE COMPLIANCE

- ANSI/TIA-568.2-D

MATERIALS & CONSTRUCTION

| | |
|------------------------|--|
| Conductor | 23AWG solid bare copper |
| Stranding | Solid |
| Number of Conductors | 8 (4 pair) |
| Insulation | FEP 0.008" (0.203mm) (2 pairs), FEP/ Polyolefin 0.008" (2.203mm) (2 pairs) |
| Insulation Colors | 1.Blue/White-Blue 2. Orange/White-Orange 3. Green/White-Green 4. Brown/White Brown |
| Rip Cord | Yes |
| Jacket Material | FR-PVC |
| Overall Cable Diameter | 0.220" Nom (5.5858mm) |
| Jacket Average Wall | 0.022"(0.51mm) |
| UL Fram Rating | NFPA 262 |
| Marking | As per Hyperline standard |

PHYSICAL CHARACTERISTICS

| | |
|------------------------------------|-----------------|
| Maximum Pulling Force | ≤ 110 N |
| Minimum Bending Radius (installed) | 0.75" Min |
| Operating Temperature | -20°C to +75°C |
| Installation Temperature | 0°C to + 50°C |
| Storage & Shipping Temperature | -20°C to + 75°C |

ELECTRICAL AND ENVIRONMENTAL PROPERTIES:

| | |
|--------------------------------------|---------------------|
| Operating Voltage Rating | 300 V RMS |
| DC Resistance | 93.8Ω/KM @20°C Max |
| Mutual capacitance | ≤ 5.6 nF/100m Max |
| Resistance unbalance | 5% |
| Capacitance unbalance pair-to-ground | 330 pF/100m |
| Normal Impedance | 100Ω ±15%(1-100MHz) |
| Data Performance Standards | TIA/EIA 568.2-D |
| Safety Listing Standard | UL 444 |

ELECTRICAL PERFORMANCE

| Frequency (MHz) | INSERTION LOSS | | NEXT | | PS NEXT | | ACR | |
|-----------------|----------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|
| | TIA-568-C.2 | Hyperline | TIA-568-C.2 | Hyperline | TIA-568-C.2 | Hyperline | TIA-568-C.2 | Hyperline |
| 1 | 2.1 | 1.7 | 73.7 | 94.7 | 71.74 | 85.5 | 71.7 | 93.0 |
| 4 | 3.8 | 3.4 | 65.3 | 86.5 | 63.3 | 79.2 | 61.5 | 83.0 |
| 8 | 5.3 | 4.9 | 60.8 | 80.8 | 58.76 | 74.1 | 55.4 | 75.9 |
| 10 | 6.0 | 5.5 | 59.3 | 79.0 | 57.3 | 68.5 | 53.4 | 73.4 |
| 16 | 7.6 | 7.1 | 56.2 | 76.8 | 54.24 | 69.3 | 48.7 | 69.7 |
| 20 | 8.5 | 7.9 | 54.8 | 78.6 | 52.78 | 70.5 | 46.3 | 70.7 |
| 25 | 9.5 | 8.9 | 53.3 | 70.7 | 51.33 | 62.1 | 43.8 | 61.8 |
| 31.25 | 10.7 | 10.0 | 51.9 | 73.5 | 49.88 | 66.8 | 41.2 | 63.5 |
| 62.5 | 15.4 | 14.4 | 47.4 | 70.2 | 45.36 | 62.9 | 32.0 | 55.7 |
| 100 | 19.8 | 18.6 | 44.3 | 63.7 | 42.3 | 57.1 | 24.5 | 45.0 |
| 155 | 25.2 | 23.7 | 41.4 | 58.0 | 39.44 | 49.9 | 16.3 | 34.3 |
| 200 | 29.0 | 27.3 | 39.8 | 57.8 | 37.78 | 50.4 | 10.8 | 30.4 |
| 250 | 32.8 | 31.0 | 38.3 | 60.2 | 36.34 | 51.1 | 5.5 | 29.2 |
| 300 | | 34.4 | | 58.1 | | 47.1 | | 23.7 |
| 350 | | 37.6 | | 52.1 | | 42.6 | | 14.4 |
| 400 | | 40.7 | | 56.1 | | 43.7 | | 15.4 |
| 450 | | 43.7 | | 49.8 | | 39.3 | | 6.1 |
| 500 | | 46.5 | | 50.3 | | 39.6 | | 3.7 |
| 550 | | 49.2 | | 51.3 | | 44.2 | | 2.0 |
| 600 | | 51.9 | | 50.0 | | 43.2 | | N/A |
| 650 | | 54.4 | | 52.6 | | 45.5 | | N/A |

Values above 250MHz are for information only

ELECTRICAL PERFORMANCE

| Frequency (MHz) | INSERTION LOSS | | NEXT | | PS NEXT | | ACR | |
|-----------------|----------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|
| | TIA-568-C.2 | Hyperline | TIA-568-C.2 | Hyperline | TIA-568-C.2 | Hyperline | TIA-568-C.2 | Hyperline |
| 1 | 69.7 | 83.8 | 67.1 | 93.1 | 64.1 | 81.4 | 20.2 | 28.7 |
| 4 | 59.5 | 75.8 | 55.8 | 79.5 | 52.8 | 68.6 | 23.0 | 45.4 |
| 8 | 53.4 | 69.2 | 49.8 | 73.7 | 46.8 | 62.4 | 24.5 | 54.1 |
| 10 | 51.4 | 63.0 | 47.8 | 72.2 | 44.8 | 60.4 | 25.0 | 45.1 |
| 16 | 46.7 | 62.3 | 43.7 | 70.4 | 40.7 | 56.7 | 25.0 | 42.9 |
| 20 | 44.3 | 62.6 | 41.8 | 68.3 | 38.8 | 55.3 | 25.0 | 43.2 |
| 25 | 41.8 | 53.2 | 39.8 | 65.5 | 36.8 | 53.6 | 24.3 | 42.9 |
| 31.25 | 39.2 | 56.8 | 37.9 | 63.0 | 34.9 | 51.5 | 23.6 | 45.4 |
| 62.5 | 30.0 | 48.4 | 31.9 | 56.4 | 28.9 | 46.6 | 21.5 | 47.8 |
| 100 | 22.5 | 38.5 | 27.8 | 53.3 | 24.8 | 45.5 | 20.1 | 42.6 |
| 155 | 14.3 | 26.2 | 24.0 | 52.8 | 21.0 | 41.5 | 18.8 | 38.7 |
| 200 | 8.8 | 23.1 | 21.8 | 43.6 | 18.8 | 37.3 | 18.0 | 38.6 |
| 250 | 3.5 | 20.1 | 19.9 | 42.7 | 16.9 | 33.9 | 17.3 | 35.8 |
| 300 | | 12.8 | | 42.2 | | 30.5 | | 35.0 |
| 350 | | 5.0 | | 39.7 | | 30.3 | | 46.4 |
| 400 | | 3.0 | | 43.9 | | 37.4 | | 37.1 |
| 450 | | N/A | | 39.9 | | 32.5 | | 42.2 |
| 500 | | N/A | | 35.7 | | 28.7 | | 38.2 |
| 550 | | N/A | | 35.7 | | 28.0 | | 40.5 |
| 600 | | N/A | | 31.7 | | 24.3 | | 40.5 |
| 650 | | N/A | | 36.3 | | 26.4 | | N/A |

Values above 250MHz are for information only

ORDERING

| Part Number | Product Description |
|------------------------------|--|
| UTP4-C6-SOLID-HB2-CMP-BL-305 | Category 6 HyperBase, UTP, 23 AWG, Blue, 305 Meter/1000 FT Reel |
| UTP4-C6-SOLID-HB2-CMP-GN-305 | Category 6 HyperBase, UTP, 23 AWG, Green, 305 Meter/1000 FT Reel |