

Cat 6  
F/UTP LSNH

7860NBH



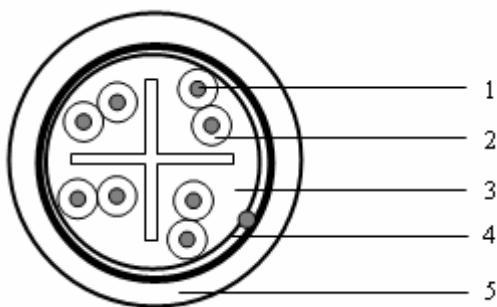
**Applications**

- Horizontal and building backbone cable
- Support current and future **Category 6 and 5 enhanced** applications, such as: 1000 Base-T (Gigabit Ethernet), 100 Base-T, 10 Base-T, FDDI, ATM

**Technical Specifications**

General Standards:  
**ISO/IEC 11801 2nd edition (2002)**  
**EN 50173-1 (November 2002)**  
**ANSI/TIA/EIA 568-B.2 (2002)**

**Construction**



- 1. Conductor**  
 Material  
 Solid bare copper ETP  
 Diameter  
 AWG 23
- 2. Insulation**  
 Material  
 Polyethylene  
 Nominal Diameter over insulation  
 1.15 mm

- 3. Cable core**  
 Pair  
 Number of pairs  
 Colour code pair 1  
 Colour code pair 2  
 Colour code pair 3  
 Colour code pair 4  
 Cross web
- 4. Shield**  
 Insulating foil material  
 Width  
 Shielding foil material  
 Width  
 Drain wire material  
 Diameter
- 5. Jacket**  
 Material  
 Diameter  
 Colour  
 Standard text:

|   |
|---|
| 2 twisted insulated conductors  |
| 4, all twisted together   |
| White / Blue & Blue   |
| White / Orange & Orange   |
| White / Green & Green   |
| White / Brown & Brown   |
| Polyethylene  |
| Polyester   |
| 25 mm   |
| Laminated Aluminium / Polyester   |
| 23 mm   |
| Solid tinned copper   |
| AWG 26  |
| FRNC  |
| 7.3 ± 0.3 mm  |
| Grey or Blue  |
|   |
| BELDEN 7860NBH F/UTP CAT6 4PR AWG23 LSNH<br>ISO/IEC 11801 EN50173 VERIFIED 100 OHM (+ length<br>indication per meter) |

### General and environmental characteristics

- Temperature range – Operation/storage -40°C +60°C
- Temperature range – installation 0°C +50°C
- Minimum bending radius 50 mm
- Maximum pulling tension 80N
- Flame retardancy IEC 60332-1
- Calorific value 834 kJ/m
- Weight (approx.) 52 kg/km
- Maximum operating voltage 72 V rms
- Maximum continuous current/conductor (25°C) 1.5 A

### Electrical characteristics (at 20°C)

- Nominal mutual capacitance at 1kHz 56 nF/km
- Maximum conductor DCR 93.8 Ohm/km
- NVP – Nominal Velocity of Propagation  $\geq 0.60 c$
- SKEW – Propagation delay difference (100 Mhz)  $\leq 45 \text{ ns}/100\text{m}$

### Reference standard:

### ISO/IEC 61156-5

| TYPE                  | 1*    | 4     | 10    | 16    | 20    | 31.2  | 62.5  | 100   | 155   | 250   | MHz      |
|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| Attenuation           | 2.1   | 3.8   | 6.0   | 7.6   | 8.5   | 10.7  | 15.5  | 19.9  | 25.3  | 33.0  | dB/100m  |
| NEXT                  | 75.3  | 66.3  | 60.3  | 57.2  | 55.8  | 52.9  | 48.4  | 45.3  | 42.4  | 39.3  | dB/100m  |
| PS NEXT               | 72.3  | 63.3  | 57.3  | 54.2  | 52.8  | 49.9  | 45.4  | 42.3  | 39.4  | 36.3  | dB/100m  |
| ACR                   | 73.2  | 62.4  | 54.3  | 49.6  | 47.3  | 42.1  | 32.9  | 25.4  | 17.1  | 6.3   | dB/100m  |
| PS ACR                | 70.2  | 59.4  | 51.3  | 46.6  | 44.3  | 39.1  | 29.9  | 22.4  | 14.1  | 3.3   | dB/100m  |
| ACR-F                 | 68.0  | 56.0  | 48.0  | 43.9  | 42.0  | 38.1  | 32.1  | 28.0  | 24.2  | 20.0  | dB/100m  |
| PS ACR-F              | 65.0  | 53.0  | 45.0  | 40.9  | 39.0  | 35.1  | 29.1  | 25.0  | 21.2  | 17.0  | dB/100m  |
| Return Loss           | 20.0  | 23.0  | 25.0  | 25.0  | 25.0  | 23.6  | 21.5  | 20.1  | 18.8  | 17.3  | dB/100m  |
| ELTCTL                | 35.0  | 23.0  | 15.0  | 10.9  | 9.0   | 5.1   |       |       |       |       | dB/100m  |
| Impedance limit upper | 122.2 | 115.2 | 111.9 | 111.9 | 111.9 | 114.1 | 118.3 | 121.9 | 126.0 | 131.5 | $\Omega$ |
| Impedance limit upper | 81.8  | 86.8  | 89.4  | 89.4  | 89.4  | 87.7  | 84.5  | 82.0  | 79.3  | 76.0  | $\Omega$ |

NOTE: Limits below 4MHz are for information only

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