

Cat 6
F/UTP LSNH

7860NBH



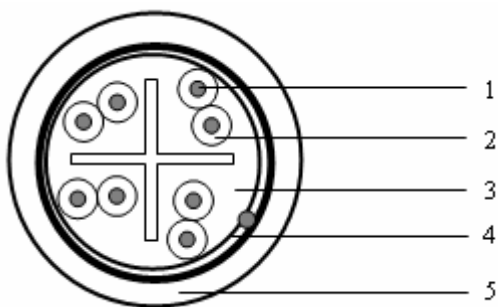
Applications

- 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
 ISO/IEC 11801 EN50173 VERIFIED 100 OHM (+ length
 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	Ω
Impedance limit upper	81.8	86.8	89.4	89.4	89.4	87.7	84.5	82.0	79.3	76.0	Ω

NOTE: Limits below 4MHz are for information only