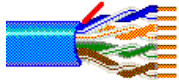


7813LC Multi-Conductor - Enhanced Category 6 Bonded-Pair Cable



For more Information
please call

1-800-Belden1



General Description:

CAT6 (250MHz), 4-Bonded-Pairs, U/UTP-Unshielded, Limited Combustible-FHC 25/50, Plenum-CMP, Premise Horizontal Cable, 23 AWG Solid Bare Copper Conductors, FEP Insulation, Central Filler, FEP Jacket

Usage (Overall)

Suitable Applications: Premise Horizontal Cable, Gigabit Ethernet, 100BaseTX, 100BaseVG ANYLAN, 155 ATM, 622 ATM, 250MHz Category 6, Enviroments benefitting from Limited Combustible Cable

Physical Characteristics (Overall)

Conductor

AWG:

| # Pairs | AWG | Stranding | Conductor Material |
|---------|-----|-----------|--------------------|
| 4 | 23 | Solid | BC - Bare Copper |

Total Number of Conductors: 8

Insulation

Insulation Material:

| Insulation Material |
|--------------------------------------|
| FEP - Fluorinated Ethylene Propylene |

Outer Shield

Outer Shield Material:

| Outer Shield Material |
|-----------------------|
| Unshielded |

Outer Jacket

Outer Jacket Material:

| Outer Jacket Trade Name | Outer Jacket Material |
|-------------------------|--------------------------------------|
| Teflon | FEP - Fluorinated Ethylene Propylene |

Outer Jacket Diameter:

| Nom. Dia. (in.) |
|-----------------|
| 0.214 |

Overall Cable

Overall Cabling Separator Material: Central Filler

Pair

Pair Color Code Chart:

| Number | Color |
|--------|------------------------------|
| 1 | White/Blue Stripe & Blue |
| 2 | White/Orange Stripe & Orange |
| 3 | White/Green Stripe & Green |
| 4 | White/Brown Stripe & Brown |

Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +150°C

Bulk Cable Weight: 28 lbs/1000 ft.

Max. Recommended Pulling Tension: 40 lbs.

Min. Bend Radius/Minor Axis: 0.500 in.

Min. Bend/Installation: 2.100 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMP, FHC 25/50

NEC Articles: 800

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| | |
|---------------------------------------|-------------------------------------|
| CEC/C(UL) Specification: | CMP |
| EU Directive 2011/65/EU (ROHS II): | Yes |
| Other Standards: | ISO/IEC 11801 ed 2.1 (2008) Class E |
| EU CE Mark: | Yes |
| EU Directive 2000/53/EC (ELV): | Yes |
| EU Directive 2002/95/EC (RoHS): | Yes |
| EU RoHS Compliance Date (mm/dd/yyyy): | 01/01/2004 |
| EU Directive 2002/96/EC (WEEE): | Yes |
| EU Directive 2003/11/EC (BFR): | Yes |
| CA Prop 65 (CJ for Wire & Cable): | Yes |
| MII Order #39 (China RoHS): | Yes |
| Telecommunications Standards: | Category 6 - TIA 568.C.2 |
| Other Specification: | 6 |

Applicable Patents:

| Country | Patent |
|---------|---------|
| US | 5734126 |

Flame Test

| | |
|-------------------|---|
| UL Flame Test: | NFPA 262 Plenum Flame Test (UL910)(FT6), UL723 (NFPA 255) |
| C(UL) Flame Test: | FT6 |
| CSA Flame Test: | FT6 |

Plenum/Non-Plenum

| | |
|--------------------|------|
| Plenum (Y/N): | Yes |
| Non-Plenum Number: | 2412 |

Electrical Characteristics (Overall)

Nom. Mutual Capacitance:

| | |
|---------------------|----|
| Capacitance (pF/ft) | 15 |
|---------------------|----|

Maximum Capacitance Unbalance (pF/100 m): 330

Nominal Velocity of Propagation:

| | |
|--------|----|
| VP (%) | 72 |
|--------|----|

Maximum Delay:

| | |
|------------------|--------------|
| Delay (ns/100 m) | 537 @ 100MHz |
|------------------|--------------|

Max. Delay Skew:

| | |
|-----------------------|----|
| Delay Skew (ns/100 m) | 45 |
|-----------------------|----|

Maximum Conductor DC Resistance:

| | |
|------------------------|-----|
| DCR @ 20°C (Ohm/100 m) | 8.2 |
|------------------------|-----|

Max. Operating Voltage - UL:

| | |
|---------|-----------|
| Voltage | 300 V RMS |
|---------|-----------|

Maximum DCR Unbalanced:

| | |
|--------------------------|---|
| DCR Unbalance @ 20°C (%) | 5 |
|--------------------------|---|

Electrical Characteristics-Premise (Overall)

Premise Cable Electrical Table 1:

| Freq. (MHz) | Max. Attenuation (dB/100 m) | Min. NEXT (dB) | Min. PSNEXT (dB) | Min. ACR (dB) | Min. PSACR (dB) | Min RL (dB) | Min. SRL (dB) |
|-------------|-----------------------------|----------------|------------------|---------------|-----------------|-------------|---------------|
| 1 | 2.0 | 74.3 | 72.3 | 72.3 | 70.3 | 20.0 | na |
| 4 | 3.8 | 65.3 | 63.3 | 61.5 | 59.5 | 23.0 | na |
| 8 | 5.3 | 60.8 | 58.8 | 55.4 | 53.4 | 24.5 | na |
| 10 | 6.0 | 59.3 | 57.3 | 53.3 | 51.3 | 25.0 | na |
| 16 | 7.6 | 56.2 | 54.3 | 48.7 | 46.7 | 25.0 | na |
| 20 | 8.5 | 54.8 | 52.8 | 46.3 | 44.3 | 25.0 | na |
| 25 | 9.5 | 53.3 | 51.3 | 43.8 | 41.8 | 24.3 | na |

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| | | | | | | | |
|-------|------|------|------|------|------|------|----|
| 31.25 | 10.7 | 51.9 | 49.9 | 41.2 | 39.2 | 23.6 | na |
| 62.5 | 15.4 | 47.4 | 45.4 | 32.0 | 30.0 | 21.5 | na |
| 100 | 19.8 | 44.3 | 42.3 | 24.5 | 22.5 | 20.1 | na |
| 155 | 25.2 | 41.5 | 39.5 | 16.3 | 14.3 | 18.8 | na |
| 200 | 29.0 | 39.8 | 37.8 | 10.8 | 8.8 | 18.0 | na |
| 250 | 32.8 | 38.3 | 36.3 | 5.5 | 3.5 | 17.3 | na |

Premise Cable Electrical Table 2:

| Freq. (MHz) | Input (Unfitted) Imp. (Ohms) | Fitted Impedance | Min. ELFEXT (dB) | Min. PSELFEXT (dB) |
|-------------|------------------------------|------------------|------------------|--------------------|
| 1 | 100 ± 15 | 100 ± 15 | 67.8 | 64.8 |
| 4 | 100 ± 15 | 100 ± 15 | 55.8 | 52.8 |
| 8 | 100 ± 15 | 100 ± 15 | 49.7 | 46.7 |
| 10 | 100 ± 15 | 100 ± 15 | 47.8 | 44.8 |
| 16 | 100 ± 15 | 100 ± 15 | 43.7 | 40.7 |
| 20 | 100 ± 15 | 100 ± 15 | 41.8 | 38.8 |
| 25 | 100 ± 15 | 100 ± 15 | 39.8 | 36.8 |
| 31.25 | 100 ± 15 | 100 ± 15 | 37.9 | 34.9 |
| 62.5 | 100 ± 15 | 100 ± 15 | 31.9 | 28.9 |
| 100 | 100 ± 15 | 100 ± 15 | 27.8 | 24.8 |
| 155 | 100 ± 22 | 100 ± 15 | 23.9 | 20.9 |
| 200 | 100 ± 22 | 100 ± 15 | 21.8 | 18.8 |
| 250 | 100 ± 32 | 100 ± 15 | 19.8 | 16.8 |

Notes (Overall)

Notes: Jacket sequentially marked at 2 ft. intervals. Third party verified to ANSI/TIA-568-C.2, Category 6.

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|-----------------|----------|-------------|-------------|-------|-------------------------|
| 7813LC 006U1000 | 1,000 FT | 34.000 LB | BLUE, LIGHT | | CAT6 4PRB U/UTP LC BOX |
| 7813LC 006I1000 | 1,000 FT | 37.000 LB | BLUE, LIGHT | C | CAT6 4PRB U/UTP LC REEL |
| 7813LC 009U1000 | 1,000 FT | 34.000 LB | WHITE | | CAT6 4PRB U/UTP LC BOX |
| 7813LC 009I1000 | 1,000 FT | 37.000 LB | WHITE | C | CAT6 4PRB U/UTP LC REEL |

Notes:

C = CRATE REEL PUT-UP.

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- Техническая поддержка проекта;
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