

1633ENH

Networking Cables

Datatwist® cable

Cat. 5E F/UTP LSNH

2017-01-06 V4

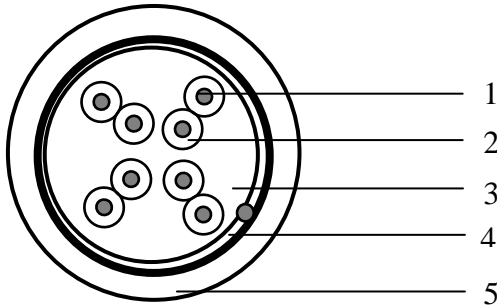
Applications

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

General standards

- International standard: ISO/IEC 11801 2nd edition (2002) and ISO/IEC 11801 Amendment 2 (2010)
- European standard: EN 50173-1 (2002) and EN 50173-1 Amendment 1 (2009)
- U.S. Standards: ANSI/TIA/EIA 568-B.2-1 (2002)

Construction & Dimensions



- | | |
|----------------------------------|--|
| 1. Conductor | |
| Material | Solid bare copper ETP |
| Diameter | AWG 24 |
| 2. Insulation | |
| Material | Polyethylene |
| Nominal diameter over insulation | 1.05 mm |
| 3. Cable core | |
| Pair | 2 twisted insulated conductors |
| Number of pairs | 4, all twisted together |
| Colour code pair 1 | White / Blue & Blue |
| Colour code pair 2 | White / Orange & Orange |
| Colour code pair 3 | White / Green & Green |
| Colour code pair 4 | White / Brown & Brown |
| Foil | Overlapping polyester foil over cable core |
| 4. Foil shielding | |
| Material | Laminated Aluminium / Polyester |
| Position aluminium | Facing outside, in contact with drain wire |
| Drain wire material | Solid tinned copper |

Mechanical characteristics

	Specification	Unit
Elongation at break of the conductors	8	%
Minimum elongation at break of the insulation	≥ 100	%
Minimum elongation at break of the sheath	≥ 100	%
Tensile strength of sheath	> 9	MPa

Environmental and overall characteristics

	Specification	Unit
Maximum operating voltage (for all temperatures cable is intended to be used)	72	V D.C.
Maximum continuous current per conductor (@25°C)	1.5	A
Temperature rating installation	0 / 50	°C
Temperature rating operation	- 30 / 60	°C
Total cable weight	39	kg/km
Minimum bending radius (during operation and installation)	24 / 48	mm
Maximum pulling strength	72	N
Burning load	440	kJ/m
Smoke density acc. to IEC 61034-1/2 & EN50268-1/2; transmittance	> 60	%
Amount of halogen acid gas acc. to IEC 60754-1/2 & EN50267-1/2; pH	> 4.3	
Amount of halogen acid gas acc. to IEC 60754-1/2 & EN50267-1/2; Conductivity	≤ 2.5	µS/mm
Fire performance according IEC 60332-1	Pass	
Reaction to fire according EN50575	Dca-s2,d2,a1	



Belden declares this product to be in compliance with the environmental regulations EU RoHS (Directive 2002/95/EC, 27 January 2003); this is valid for all material produced after the RoHS compliant date for this product.