

| TECHNICAL DATASHEET | Code | 72001E |
|-----------------------------|---------|------------|
| | Version | 1 |
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STANDARDS

- ISO/IEC 11801 2nd edition (September 2002) and ISO/IEC 24702
- EN 50173 1 (November 2002)
- TIA/EIA-568-B.2 (May 2001)

CABLE CONSTRUCTION

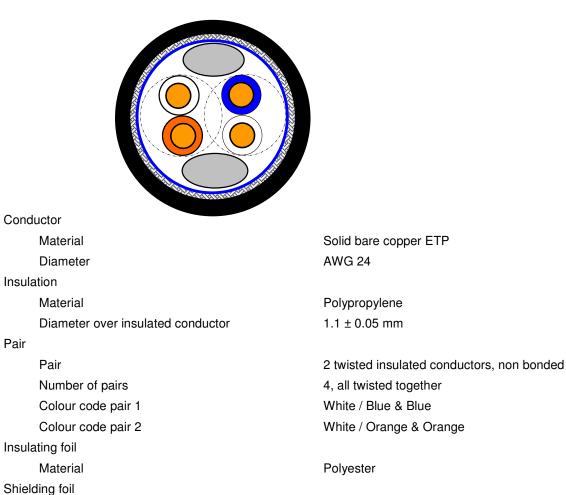
Material

Material

Coverage

Braid

Position aluminium



Laminated Aluminium / Polyester Outside

Solid tinned copper Minimum 80%



Sheath:

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| Material | PVC | | |
|--|---------------|-----------------------|---------|
| Diameter | 6.0 +/- 0.3 m | m | |
| Wall thickness | 0.8 mm | | |
| Colour | Black | | |
| ELECTRICAL CHARACTERISTICS | | | |
| Low frequency and D.C. | | | |
| D.C. resistance conductor | < 93.8 | | Ω/km |
| D.C. loop resistance | < 19.0 | | Ω/100m |
| Resistance unbalance | < 2 | | % |
| D.C. insulation resistance | > 5000 | | MΩ.km |
| Dielectric strength cond. – cond. (2 sec.) | 2.5 | | kV D.C. |
| Mutual capacitance | < 56 | | nF/km |
| Capacitance unbalance | < 1600 | | pF/km |
| High frequency | | | |
| Velocity of propagation @ 4 – 100 MHz | | ≥ 0.6 c | |
| Skew @ 1 – 100 MHz | | ≤ 40 ns/100m | |
| Propagation delay @ 1 – 100 MHz | | ≤ 534 + 36/Vf ns/100m | |
| Mean characteristic impedance (Zcm) @ 100 MH | Z | 100 ± 5 Ω | |
| Input impedance 1-100MHz | | 100 ± 15 Ω | |

| | Insertion loss | NEXT | ELFEXT | |
|-----------|----------------|------|--------|------------------|
| Frequency | dB/100m (max) | (dB) | (dB) | Return Loss (dB) |
| 0.772 | - | 67 | | 19.4 |
| 1 | 3.2 | 65.3 | 63.8 | 20 |
| 4 | 6.0 | 56.3 | 51.8 | 23 |
| 10 | 9.5 | 50.3 | 43.8 | 25 |
| 16 | 12.1 | 47.2 | 39.7 | 25 |
| 20 | 13.6 | 45.8 | 37.8 | 25 |
| 25 | 15.3 | 44.3 | 35.8 | 24.3 |
| 31.25 | 17.1 | 42.9 | 33.9 | 23.6 |
| 62.5 | 24.8 | 38.3 | 27.9 | 21.5 |
| 100 | 32 | 35.3 | 23.8 | 20.1 |

MECHANICAL CHARACTERISTICS

| Elongation at break conductor | ≥ 10 % |
|--------------------------------|---------|
| Elongation at break insulation | ≥ 100 % |
| Elongation at break sheath | ≥ 100 % |
| Tensile strength sheath | ≥15 Mpa |

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ENVIRONMENTAL AND OVERALL CHARACTERISTICS

| Maximum operating voltage | 450 V D.C. and 300 V A.C. |
|--|---------------------------|
| Maximum continuous current per conductor (@25°C) | 1.4 A rms |
| Maximum pulling tension | 80 N |
| Minimum setting/bending radius | 30 / 60 mm |
| Temperature range during installation | 0 / +50 ℃ |
| Temperature range during operation | -20 / +80 °C |
| Oil resistance | IEC 60811-2-1 |
| Flame propagation | IEC 60332-1 |



Belden CDT believes 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.