APPLICATION
Twinaxial instrumentation and computer cable for data transmission applications.

CONSTRUCTION

1. **Conductor**
   - AWG22 (19xAWG34) tinned Cu

2. **Insulation**
   - Material: Foamed high density Polyethylene
   - Diameter over insulation: 3.45 ± 0.10 mm
   - Colour of insulation: Black and yellow

3. **Filler (2x)**
   - Material: Foamed fibrillated Polypropylene
   - Diameter: 2.92 mm
   - Colour: White

4. **Foil (Duofoil®)**
   - Material: Aluminium/Polyester/Aluminium
   - Thickness: 9 / 23 / 9 µm

5. **Drainwire**
   - AWG22 (19xAWG34) tinned Cu

6. **Foil**
   - Material: Polyester
   - Thickness: 23 µm

7. **Sheath**
   - Material: FRNC (UV stabilised)
   - Colour: Black
   - Nominal thickness: 0.89 mm
   - Nominal diameter: 8.80 mm

REQUIREMENTS AND TEST METHODS

**Electrical:**
- Nominal resistance conductor @ 20 °C: 45.9 Ω/km
- Nominal resistance shield @ 20 °C: 20.7 Ω/km
- Nominal capacitance conductor to conductor: 28.9 pF/m
- Nominal capacitance conductor to shield: 54.1 pF/m
- Nominal impedance: 150 Ω
- Nominal velocity of propagation: 78 %
- Nominal delay: 4.3 ns/m
- Nominal inductance: 0.96 µH/m
- Nominal attenuation @ 1 MHz: 1.31 dB/100m
- Nominal attenuation @ 5 MHz: 2.79 dB/100m
- Nominal attenuation @ 10 MHz: 3.94 dB/100m

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Nominal attenuation @ 20 MHz 5.58 dB/100m
Nominal attenuation @ 50 MHz 8.86 dB/100m
Nominal attenuation @ 100 MHz 14.11 dB/100m
Nominal attenuation @ 200 MHz 20.34 dB/100m
Nominal attenuation @ 400 MHz 28.87 dB/100m
Testvoltage conductor-conductor 2500 VDC, 3 seconds
Testvoltage conductor-screen 2500 VDC, 3 seconds
Voltage rating 300 V RMS

**Mechanical and physical:**
Flame resistance IEC 60332-3C
Oil resistance ASTMD741
Radiation resistance IEC544 (CERN)
Application specification BS 7655 section 6.1 table 1, LTS 3
Halogen content according to IEC754-1 zero
Corrosivity of fire gasses according to IEC754-2
  Conductivity ≤ 100 µS/cm
  pH value ≥ 3.5
Temperature range installing -15 to +80 °C
Temperature range operating (moving installation) -15 to +80 °C
Temperature range operating (fixed installation) -45 to +80 °C
Temperature range storage -45 to +80 °C
Minimum bending radius 10 x cable diameter

**PACKAGING**
On non-returnable reels (E 500) with a nominal length of 305m (-0, +10%) or on non-returnable reels (E 560) with a nominal length of 500m (-0, +10%) or on non-returnable reels (E 600) with a nominal length of 1000m (-0, +10%).

Each reel is labelled with the following data:

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.