APPLICATION
Coaxial communication cable based on MIL-C-17.

CONSTRUCTION

1 2 3 4

1 Inner conductor  Stranded tinned copper
2 Dielectric  Solid PE
3 Braid  Annealed tinned copper
4 Sheath  LSNH according the European Standard HD 624.

REQUIREMENTS AND TEST METHODS
Test methods in accordance with European standard EN 50289.

Mechanical characteristics
1. Inner conductor.
   Diameter: 19 x 0.18 mm ± 0.02 mm
2. Dielectric:
   Diameter: 2.95 mm ± 0.15 mm
3. Outer conductor:
   Diameter screen: 3.5 mm ± 0.2 mm
   Coverage braid: 93 % ± 4 %
4. Sheath:
   Diameter: 4.95 mm ± 0.2 mm
   Tensile strength: ≥ 9.0 N/mm²
   Elongation at break: ≥ 125 %
5. Cable:
   Crush resistance of cable: < 1% (load of 700N)
   Temperature range -storage/operating: -15°C to +70°C
   Temperature range -installation: -5 °C to + 50°C
   Minimum static bend radius: 25 mm
   Total weight: 38 kg/km
Electrical characteristics

Mean characteristic impedance: 50 ± 2 Ω
Regularity of impedance: > 40 dB
DC resistance inner conductor: ≤ 36 Ω/km
Capacitance: 100 pF/m ± 2 pF/m
Nominal velocity of propagation: 66 %
Insulation resistance: > 10⁴ MΩ.km

Voltage Rating
DC: 4 kVdc
RMS 2kVrms

Return loss at
- 5-30 MHz: ≥ 20 dB*
- 30-470 MHz: ≥ 20 dB*
- 470-1000 MHz: ≥ 18 dB*

*Max. 3 peak values 4 dB lower than specified.

Nominal Attenuation:
- 10 MHz: 4.5 dB/100m
- 200 MHz: 22.0 dB/100m
- 400 MHz: 32.0 dB/100m
- 1000 MHz: 50.0 dB/100m
- 2400 MHz: 79.0 dB/100m
- 3000 MHz: 88.0 dB/100m

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.