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## APPLICATION

Commercial applications shielded

## CONSTRUCTION



### 1. Conductor

Diameter of conductor

1.22mm (AWG18)

Material

stranded bare copper (7xAWG26)

### 2. Insulation

Material

PE

Diameter over insulation

1.72 ± 0.05 mm

Wallthickness

0.25 mm

### 3. Overall Cabling

Colour code

black – red

### 4. Outer shield

Shield

Beldfoil®)

Shield Material

Aluminium / Polyester tape

Shield Thickness Alu

9 µm

Shield coverage

100%

Drainwire

AWG20 (7xAWG28) tinned Cu

### 4. Sheath

Material

FRNC

Colour


Grey

Nominal thickness

0.38 mm

Nominal diameter

4.20 mm

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## REQUIREMENTS AND TEST METHODS

### Electrical:

Nominal resistance conductor	21.3 $\Omega$ /km
Nominal resistance shield	23.6 $\Omega$ /km
Nom. capacitance conductor to conductor @ 1kHz	125 pF/m
Nom. capacitance cond. to shield + other cond. @ 1kHz	224 pF/m
Testvoltage conductor-conductor	2500 VDC, 3 seconds
Testvoltage conductor-screen	2500 VDC, 3 seconds
Voltage rating	300 V RMS
Maximum continues current per conductor @ 25 °C	3.5 A per conductor @ 25 °C

### Mechanical and physical:

Temperature range processing and operating	-20 to +70 °C
Temperature range storage	-30 to +70 °C
Minimum bending/setting radius	5*D/10*D
Maximum pulling tension	26 N
Halogen free according to	IEC 60754-1
Non dense smoke according to	IEC 61034-1 and 61034-2
Non corrosive gas according to	IEC 60754-2
Flame Retardant according to	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.