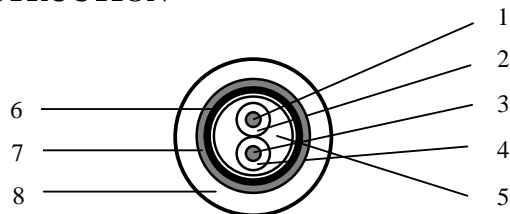
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## APPLICATION

Twinaxial instrumentation and computer cable for data transmission applications.

## CONSTRUCTION




<b>1. Conductor</b>	AWG20 (7xAWG28) bare Cu
<b>2. Insulation</b>	
Material	Polyethylene
Diameter over insulation	2.11 ± 0.08 mm
Colour of insulation	Clear
<b>3. Conductor</b>	AWG20 (7xAWG28) tinned Cu
<b>4. Insulation</b>	
Material	Polyethylene
Diameter over insulation	2.11 ± 0.08 mm
Colour of insulation	Clear
<b>5. Dielectric</b>	
Material	Polyethylene
Diameter over dielectric	5.99 ± 0.15 mm
Colour of dielectric	Clear
<b>6. Foil (Duofoil®)</b>	
Material	Aluminium/ Polyester/ Aluminium
Thickness	9 / 23 / 9 µm
<b>7. Braiding</b>	
Material	AWG34 tinned Cu
Coverage	85 %
<b>8. Sheath</b>	
Material	FRNC
Colour	Black
Thickness of sheath	0.89 ± 0.05 mm
Diameter over sheath	8.60 ± 0.20 mm

## REQUIREMENTS AND TEST METHODS

### Electrical:

Nominal resistance conductor @ 20 °C	31.2 Ω/km
Nominal resistance shield @ 20 °C	6.6 Ω/km
Nominal capacitance conductor to conductor	47.6 pF/m
Nominal capacitance conductor to shield	75.5 pF/m
Nominal impedance	100 Ω
Nominal velocity of propagation	66 %
Nominal delay	5.1 ns/m

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Nominal inductance	0.51 $\mu$ H/m
Nominal attenuation @ 1 MHz	0.98 dB/100m
Nominal attenuation @ 10 MHz	3.94 dB/100m
Nominal attenuation @ 50 MHz	9.19 dB/100m
Nominal attenuation @ 100 MHz	13.45 dB/100m
Nominal attenuation @ 200 MHz	21.00 dB/100m
Nominal attenuation @ 400 MHz	33.46 dB/100m
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	$\leq 100 \mu$ S/cm
pH value	$\geq 3.5$
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

**MARKING**


Colour code 2559: black sheath with text 'BELDEN V 9207NH 1PR 20AWG SHIELDED LSNH IEC 332 PART 1'

**PACKAGING**

On non-returnable reels (E 500) with a nominal length of 305m (-0, +10%) or on non-returnable reels (E 600) with a nominal length of 500m (-0, +10%) or on non-returnable reels (E 630) with a nominal length of 1000m (-0, +10%).

Each reel is labelled with the following data:

Belden Logo. Belden code number. Item description. Length on the reel. Date of manufacture. CE-marking.

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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.

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