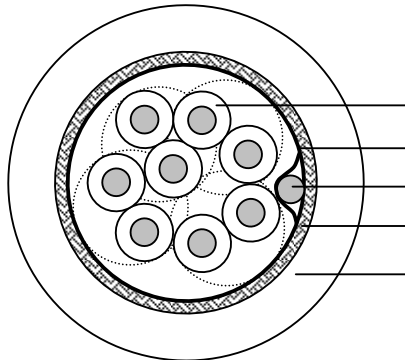


**APPLICATION**

Instrumentation and computer cable for data transmission applications.

**CONSTRUCTION**



- 1. Insulated conductor
- 2. Foil
- 3. Drainwire
- 4. Braiding
- 5. Sheath

**1. Insulated conductor**

Conductor  
Insulation material  
Diameter over insulation  
Colour of insulation

AWG24 (7xAWG32) tinned Cu  
Datalene  
1.24 ± 0.06 mm  
Pair 1: White/blue; blue/white  
Pair 2: White/orange; orange/white  
Pair 3: White/green; green/white  
Pair 4: White/brown; brown/white

**2. Foil (Z-fold®)**

Material  
Thickness

Aluminium / Polyester  
9 / 12 µm

**3. Drainwire**

**4. Braiding**


Material  
Coverage

Tinned copper wire  
>65%

**5. Sheath**

Material  
Colour  
Minimum wall thickness  
Minimum average wall thickness  
Nominal diameter over sheath

PVC  
Chrome  
0.711 mm  
0.813 mm  
7.86 mm

	<b>TECHNICAL DATA SHEET</b>	code	<b>8104</b>
		version	<b>2</b>
		date	<b>2005-11-03</b>
	<b>8104</b>	page	<b>2/2</b>

## REQUIREMENTS AND TEST METHODS

### Electrical:

Max. operating voltage type CM	300 V RMS
Max. operating voltage type AWM 2919	30 V RMS
Max. continuous current per conductor @ 25 °C	1.5 A
Nominal capacitance conductors of pair @ 1 kHz	41.0 pF/m
Max. capacitance conductors of pair @ 1 kHz	45.9 pF/m
Nominal capacitance conductor to shield @ 1 kHz *	72.2 pF/m
Nominal impedance	100 Ω
Nominal inductance	0.75 microH/m
Nominal resistance conductor	78.7 Ω/km
Nominal resistance shield	11.5 Ω/km

\*One conductor to other conductor and shield.

\*\*Nominal values are for information only.

### Mechanical and physical:

Temperature range	-30 to +80 °C
Nominal weight per 100m	approx. 6.5kg
Maximum pulling tension	220 N
Minimum bending radius	80 mm

## MARKING

Text: Inkjet printing in blue

BELDEN V 8104 CM 4PR24 SHIELDED (UL) E108998 OR AWM 2919 LOW VOLTAGE COMPUTER CABLE OR C(UL) CM xxmm
---

xx = jaartal +15

mm= maand

## PACKAGING

On non-returnable reels with a nominal length of 305m (-0, +10%) or on non-returnable reels. Each reel is labelled with the following data: Belden Logo. Belden code number. Item description. Length on the reel. Date of manufacture. CE-marking.



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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