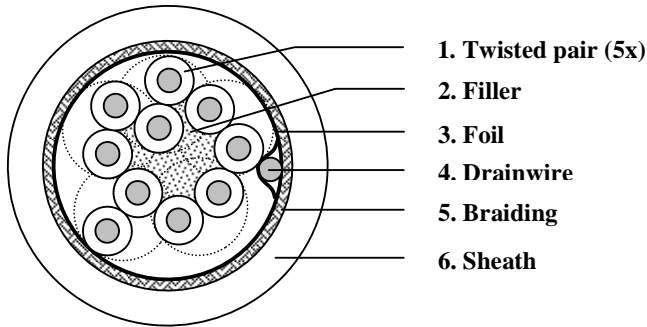
	<b>TECHNICAL DATA SHEET</b>	code	<b>8105</b>
		version	<b>2</b>
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## APPLICATION

Instrumentation and computer cable for data transmission applications.

## CONSTRUCTION



### 1. Twisted pair (5x)

Conductor

AWG24 (7xAWG32) tinned Cu

Insulation material

Datalene

Diameter over insulation

1.24 ± 0.06 mm

Colour of insulation

Pair 1: White/blue; blue/white

Pair 2: White/orange; orange/white

Pair 3: White/green; green/white

Pair 4: White/brown; brown/white

Pair 5: White/gray; gray/white

### 2. Filler

### 3. Foil (Z-fold®)

Material

Aluminium / Polyester

Thickness

9 / 12 µm

### 4. Drainwire

AWG24 (7xAWG32) tinned Cu

### 5. Braiding

Material

Tinned copper wire

Coverage

>65%

### 6. Sheath

Material

PVC

Colour

Chrome

Minimum wall thickness

0.711 mm


Minimum average wall thickness

0.813 mm

Nominal diameter over sheath

8.10 mm

## REQUIREMENTS AND TEST METHODS

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**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	10.5 Ω/km
Nominal velocity of propagation	78%

\*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	Under consideration
Maximum pulling tension	270 N
Minimum bending radius	82 mm

**MARKING**

Text: Inkjet printing in blue

BELDEN V 8105 CM 5PR24 SHIELDED (UL) E108998 OR AWM 2919 LOW VOLTAGE  
 COMPUTER CABLE OR C(UL) CM xxmm

xx = jaartal +15  
 mm= maand

**PACKAGING**

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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[CR3909-000](#) [CR3927-000](#) [01342.35T.01](#) [01364.35T.01](#) [CS2885-000](#) [CS8782-000](#) [CS9912-000](#) [6200UE-NAT-U1000](#) [CTC-0062-20-9/5-9](#)  
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