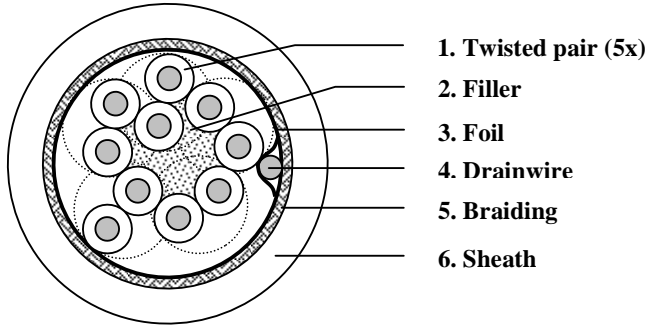
	TECHNICAL DATA SHEET	code	8105
		version	2
		date	2005-11-03
	8105	page	1/2

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

	TECHNICAL DATA SHEET	code	8105
		version	2
		date	2005-11-03
	8105	page	2/2

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.