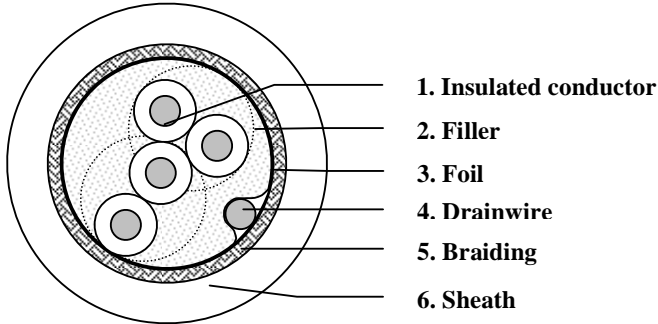
	TECHNICAL DATA SHEET	code	8102
		version	2
		date	2005-11-03
	8102	page	1/2

APPLICATION

Instrumentation and computer cable for data transmission applications.

CONSTRUCTION



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

2. Filler

Material

Polypropylene

3. Foil (Z-fold®)

Material
Thickness

Aluminium / Polyester
9 / 12 µm

4. Drainwire

AWG24 (7xAWG32) tinned Cu

5. Braiding


Material
Coverage

Tinned copper wire
>65%

6. Sheath

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

PVC
Chrome
0.711 mm
0.813 mm
6.86 mm

	TECHNICAL DATA SHEET	code	8102
		version	2
		date	2005-11-03
	8102	page	2/2

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	1.8 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	13.0 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. 5kg
Maximum pulling tension	120 N
Minimum bending radius	70 mm

MARKING

Text: Inkjet printing in blue

BELDEN V 8102 CM 2PR24 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.

© Belden Wire & Cable B.V.

All rights are reserved. Reproduction in whole or in part is prohibited without the written consent of the copyright owner