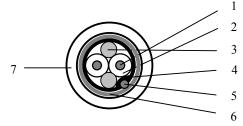
Belden <mark>CDT</mark>	TECHNICAL DATA SHEET	code	9841NH
		version	4
		date	2005-11-03
	9841NH	page	1/2

# **APPLICATION**

Instrumentation and computer cable for EIA RS-485 data transmission applications.

# **CONSTRUCTION**



- 1. Conductor
- 2. Insulation Material Diameter over insulation Colour of insulation
- 3. Filler (2x)Material Diameter Colour
- 4. Foil (Beldfoil®) Material Thickness
- 5. Drainwire
- 6. Braiding Material Coverage
- 7. Sheath Material Colour Thickness of sheath Diameter over sheath

#### **REQUIREMENTS AND TEST METHODS** Flootricol

Electrical:	
Nominal resistance	conductor

	/0./ <u>32</u> /KIII
Nominal resistance shield	11.0 Ω/km
Nominal capacitance conductor to conductor	42.0 pF/m
Nominal capacitance conductor to shield + other cond.	75.5 pF/m
Nominal impedance @ 1 MHz	120 Ω
Nominal velocity of propagation	66 %
Nominal delay	5.2 ns/m
Nominal attenuation @ 1 MHz	1.97 dB/100m
Testvoltage conductor-conductor	2500 VDC, 3 s
Testvoltage conductor-screen	2500 VDC, 3 se

# AWG24 (7xAWG32) tinned Cu

Polyethylene  $1.73 \pm 0.05 \text{ mm}$ White/blue and blue/white

Polypropylene 1.90 mm White

Aluminium / Polyester 9 / 23 µm AWG20 (7xAWG28) tinned Cu

0.122 mm tinned Cu 90%

FRNC (UV stabilised) Chrome (like RAL 7037)  $0.89 \pm 0.05 \text{ mm}$  $5.90\pm0.10\ mm$ 

78 7  $\Omega/km$ seconds seconds

	TECHNICAL DATA SHEET		code	9841NH	
Belden CDT			version	4	
DGIUGII <mark>OD I</mark>			date	2005-11-03	
	9841NH		page	2/2	
Valtaga rating		200 V DM	S (CM ann	lipstion)	
Voltage rating		300 V RMS (CM application)			
			30 V RMS (AWM application)		
		2.1 A			
Mechanical and physical:					
Flame resistance		IEC 332-3C			
Oil resistance		ASTMD741			
Radiation resistance		IEC544 (CERN)			
Application specification		BS 7655 section 6.1 table 1, LTS 3			
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			
		-45 to $+80$ °C			
Temperature range storage					
Minimum bending radius		10 x cable diameter			
Maximum pulling tension		328 N			

#### MARKING

Colour code 2146: chrome sheath with text 'BELDEN V 9841NH 1PR 24AWG SHIELDED LSNH IEC 332-3C'

#### PACKAGING

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



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.