## **Detailed Specifications & Technical Data**

#### **METRIC MEASUREMENT VERSION**



## 1421A Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232/422



For more Information please call

1-800-Belden1



## **General Description:**

24 AWG stranded (7x32) TC conductors, Datalene® insulation, twisted pairs, overall Beldfoil shield (100% coverage), 24 AWG stranded TC drain wire, PVC jacket.

## **Physical Characteristics (Overall)**

### Conductor

#### AWG:

# Pairs	AWG	Stranding	<b>Conductor Material</b>
4	24	7x32	TC - Tinned Copper

Total Number of Conductors: 8

#### Insulation

#### **Insulation Material:**

Insulation Trade Name	Insulation Material	Wall Thickness (mm)
Datalene®	FPE - Foam Polyethylene	0.330

#### **Outer Shield**

#### **Outer Shield Material:**

Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
Beldfoil®	Таре	Aluminum Foil-Polyester Tape	100

#### **Outer Shield Drain Wire AWG:**

		<b>Drain Wire Conductor Material</b>		
24	7x32	TC - Tinned Copper		

### **Outer Jacket**

#### **Outer Jacket Material:**

Outer Jacket Material	Nom. Wall Thickness (mm)
PVC - Polyvinyl Chloride	0.889

### **Overall Cable**

Overall Nominal Diameter: 7.112 mm

#### Pair

#### **Pair Color Code Chart:**

Number	Color		
1	White/Blue & Blue/White		
2	White/Orange & Orange/White		
3	White/Green & Green/White		
4	White/Brown & Brown/White		

## **Mechanical Characteristics (Overall)**

Operating Temperature Range:	-20°C To +80°C
Non-UL Temperature Rating:	80°C (UL AWM Style 2919)
Bulk Cable Weight:	49.111 Kg/Km
Max. Recommended Pulling Tension:	195.721 N
Min. Bend Radius/Minor Axis:	76.200 mm

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Applicable Specifications and Agency Compliance (Overall)				
Applicable Standards & Environmental Programs				
NEC/(UL) Specification:	CM			
CEC/C(UL) Specification:	CM			
AWM Specification:	UL Style 2919 (30 V 80°C)			
EU Directive 2011/65/EU (ROHS II):	Yes			
EU CE Mark:	Yes			
EU Directive 2000/53/EC (ELV):	Yes			
EU Directive 2002/95/EC (RoHS):	Yes			
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004			
EU Directive 2002/96/EC (WEEE):	Yes			
EU Directive 2003/11/EC (BFR):	Yes			
CA Prop 65 (CJ for Wire & Cable):	Yes			
MII Order #39 (China RoHS):	Yes			
Flame Test				
UL Flame Test:	UL1685 UL Loading			
Plenum/Non-Plenum				

No

# **Electrical Characteristics (Overall)**

Nom. Characteristic Impedance:



Plenum (Y/N):

Nom. Inductance:



Nom. Capacitance Conductor to Conductor:



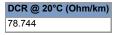
Nom. Capacitance Cond. to Other Conductor & Shield:



Nominal Velocity of Propagation:



Nom. Conductor DC Resistance:



**Maximum Outer Shield DC Resistance:** 

DCR @ 20°C (Ohm/km) 47.2464

Max. Operating Voltage - UL:

Voltage	Description
30 V RMS	UL AWM Style 2919
300 V RMS	CM

Max. Recommended Current:



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## **Notes (Overall)**

Notes: Datalene® insulation features include low dielectric constant and a dissipation factor for high-speed, low distortion data handling. Physical properties include good crush resistance and light weight.

### **Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1421A 0601000	1,000 FT	37.000 LB	CHROME	С	4 PR #24 FHDPE FS PVC
1421A 060500	500 FT	18.500 LB	CHROME	С	4 PR #24 FHDPE FS PVC
1421A 0605000	5,000 FT	180.000 LB	CHROME		4 PR #24 FHDPE FS PVC

#### Notes:

C = CRATE REEL PUT-UP.

Revision Number: 2 Revision Date: 09-11-2012

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