

## 1425A Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232/422



### 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	Conductor Material
15	24	7x32	TC - Tinned Copper

#### Insulation

##### Insulation Material:

Insulation Trade Name	Insulation Material
Datalene®	FPE - Foam Polyethylene

#### Outer Shield

##### Outer Shield Material:

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

##### Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire	Conductor Material
24	7x32		TC - Tinned Copper

#### Outer Jacket

##### Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

#### Overall Cabling

Overall Nominal Diameter: 0.455 in.

#### 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
5	White/Gray & Gray/White
6	Red/Blue & Blue/Red
7	Red/Orange & Orange/Red
8	Red/Green & Green/Red
9	Red/Brown & Brown/Red
10	Red/Gray & Gray/Red
11	Black/Blue & Blue/Black
12	Black/Orange & Orange/Black
13	Black/Green & Green/Black
14	Black/Brown & Brown/Black
15	Black/Gray & Gray/Black

## 1425A Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232/422

### Mechanical Characteristics (Overall)

Operating Temperature Range:	-20°C To +80°C
Non-UL Temperature Rating:	80°C (UL AWM Style 2919)
Bulk Cable Weight:	91.900 lbs/1000 ft.
Max. Recommended Pulling Tension:	165 lbs.
Min. Bend Radius (Install)/Minor Axis:	4 in.

### 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 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

Plenum (Y/N):	No
---------------	----

### Electrical Characteristics (Overall)

#### Nom. Characteristic Impedance:

Impedance (Ohm)

100

#### Nom. Inductance:

Inductance (µH/ft)

.213

#### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

13

#### Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)

22

#### Nominal Velocity of Propagation:

VP (%)

78

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

24

#### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

11.2

## 1425A Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232/422

### Max. Operating Voltage - UL:

#### Voltage

30 V RMS (UL AWM Style 2919); 300 V RMS

### Max. Recommended Current:

#### Current

1.8 Amps per conductor @ 25°C

### 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:

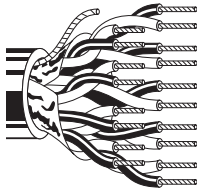
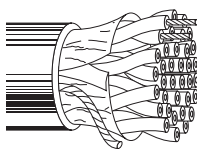
Item #	Putup	Ship Weight	Color	Notes	Item Desc
1425A 0601000	1,000 FT	97.000 LB	CHROME	C	15 PR #24 FRFPE FS PVC
1425A 060500	500 FT	52.500 LB	CHROME	C	15 PR #24 FRFPE FS PVC

#### Notes:

C = CRATE REEL PUT-UP.

# Overall Beldfoil® Shield

Low-Capacitance Computer Cables for EIA RS-232 and EIA RS-422 Applications

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Nom. DCR		Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nom. Capacitance			
					Ft.	m	Lbs.	kg	Cond.	Shield	Inch	mm			* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
<b>24 AWG Stranded (7x32) TC Conductors • Twisted Pairs • Overall Beldfoil Shield (100% Coverage) • 24 AWG Stranded TC Drain Wire</b>																		
<b>Polyethylene Insulation • Chrome PVC Jacket</b>																		
 <p>UL AWM Style 2919 (30V 80°C)</p>	<b>9680</b>	NEC:	3	See Chart 5 (Tech Info Section)	500	152.4	17.0	7.7	24.0Ω/M'	14.4Ω/M'	.282	7.16	100	66%	15.5	50.8	27.5	90.2
		CM			1000	304.8	38.0	17.3	78.7Ω/km	47.2Ω/km								
	CEC:	4	See Chart 5 (Tech Info Section)	500	152.4	24.0	10.9	24.0Ω/M'	14.4Ω/M'	.307	7.80	100	66%	15.5	50.8	27.5	90.2	
	CM			1000	304.8	45.0	20.5	78.7Ω/km	47.2Ω/km									
	CEC:	6	See Chart 5 (Tech Info Section)	500	152.4	29.5	13.4	24.0Ω/M'	13.1Ω/M'	.342	8.69	100	66%	15.5	50.8	27.5	90.2	
CM	1000			304.8	56.0	25.5	78.7Ω/km	43.0Ω/km										
CEC:	9	See Chart 5 (Tech Info Section)	500	152.4	38.0	17.2	24.0Ω/M'	12.0Ω/M'	.397	10.10	100	66%	15.5	50.8	27.5	90.2		
CM			1000	304.8	79.0	35.9	78.7Ω/km	39.4Ω/km										
CEC:	12.5 (12 prs.+ 1 single)	See Chart 5 (Tech Info Section)	500	152.4	49.5	22.6	24.0Ω/M'	12.0Ω/M'	.445	11.30	100	66%	15.5	50.8	27.5	90.2		
CM			1000	304.8	97.0	44.1	78.7Ω/km	39.4Ω/km										
<b>Datalene® Insulation • Chrome PVC Jacket</b>																		
 <p>UL AWM Style 2919 (30V 80°C)</p>	<b>1419A</b>	NEC:	2	See Chart 5 (Tech Info Section)	500	152.4	13.5	6.1	24.0Ω/M'	15.1Ω/M'	.248	6.30	100	78%	13	42.7	22	72
		CM			1000	304.8	30.0	13.6	78.7Ω/km	49.5Ω/km								
	CEC:	3	See Chart 5 (Tech Info Section)	500	152.4	15.0	6.8	24.0Ω/M'	15.1Ω/M'	.261	6.63	100	78%	13	42.7	22	72	
	CM FT1			10000	3048.0	310.0	140.9	78.7Ω/km	49.5Ω/km									
	CEC:	4	See Chart 5 (Tech Info Section)	500	152.4	16.5	7.5	24.0Ω/M'	14.4Ω/M'	.280	7.11	100	78%	13	42.7	22	72	
	CM			1000	304.8	37.0	16.8	78.7Ω/km	47.2Ω/km									
	CEC:	5	See Chart 5 (Tech Info Section)	500	152.4	23.0	10.5	24.0Ω/M'	14.4Ω/M'	.294	7.47	100	78%	13	42.7	22	72	
CM	1000			304.8	43.0	19.5	78.7Ω/km	47.2Ω/km										
CEC:	6	See Chart 5 (Tech Info Section)	500	152.4	25.0	11.4	24.0Ω/M'	13.0Ω/M'	.319	8.10	100	78%	13	42.7	22	72		
CM			1000	304.8	48.0	21.8	78.7Ω/km	42.7Ω/km										
CEC:	12.5 (12 prs.+ 1 single)	See Chart 5 (Tech Info Section)	500	152.4	43.0	19.5	24.0Ω/M'	13.0Ω/M'	.418	10.62	100	78%	13	42.7	22	72		
CM			1000	304.8	85.0	38.6	78.7Ω/km	42.7Ω/km										
CEC:	15	See Chart 5 (Tech Info Section)	500	152.4	53.0	24.1	24.0Ω/M'	11.2Ω/M'	.473	12.01	100	78%	13	42.7	22	72		
CM			1000	304.8	99.0	45.0	78.7Ω/km	36.7Ω/km										

DCR = DC Resistance • TC = Tinned Copper

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.

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.