



**Product:** [9925](#) 

RS232/423 Low Cap, #24-3c, FPO, O/A Foil+Braid, PVC Jkt, CM

## Product Description

Computer EIA RS-232/423 Cable, 24 AWG stranded (7x32) tinned copper conductors, Datalene® insulation, overall Beldfoil® (100% coverage) + tinned copper braid shield (65% coverage), drain wire, PVC jacket.

## Technical Specifications

### Product Overview

|                        |                                                                                                                                                                                                              |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable Applications: | rs-232 extended distance applications; rs-423 applications; computer communications; low voltage analog signals (4-20ma, 0-10v, ...); low voltage digital control (24v, ...); line level audio; panel wiring |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Physical Characteristics (Overall)

#### Conductor

| Element      | AWG | Stranding | Material           | No. of Conductors |
|--------------|-----|-----------|--------------------|-------------------|
| Conductor(s) | 24  | 7x32      | TC - Tinned Copper | 3                 |

|                  |   |
|------------------|---|
| Conductor Count: | 3 |
|------------------|---|

#### Insulation

| Element      | Material                 | Material Trade Name | Nominal Wall Thickness |
|--------------|--------------------------|---------------------|------------------------|
| Conductor(s) | PE - Polyethylene (Foam) | Datalene®           | 0.015 in               |

#### Color Chart

| Number | Color |
|--------|-------|
| 1      | Black |
| 2      | White |
| 3      | Red   |

#### Outer Shield Material

| Type  | Layer | Material           | Material Trade Name | Coverage [%] | Drainwire Material | Drainwire AWG | Drainwire Construction n x D |
|-------|-------|--------------------|---------------------|--------------|--------------------|---------------|------------------------------|
| Tape  | 1     | Alum / Poly        | Beldfoil®           | 100 %        | TC - Tinned Copper | 24            | Stranded                     |
| Braid | 2     | TC - Tinned Copper |                     | 65 %         |                    |               |                              |

#### Outer Jacket Material

| Material                 | Nominal Diameter | Nominal Wall Thickness |
|--------------------------|------------------|------------------------|
| PVC - Polyvinyl Chloride | 0.2 in           | 0.035 in               |

### Electrical Characteristics

#### Conductor DCR

| Nominal Conductor DCR | Nominal Outer Shield DCR |
|-----------------------|--------------------------|
| 24 Ohm/1000ft         | 5.18 Ohm/1000ft          |

#### Capacitance

| Nom. Capacitance Conductor to Conductor | Nom. Capacitance Conductor to Other Conductor to Shield |
|-----------------------------------------|---------------------------------------------------------|
| 12 pF/ft                                | 22 pF/ft                                                |

#### Delay

| Max. Delay Skew | Nominal Velocity of Propagation (VP) [%] |
|-----------------|------------------------------------------|
| 78 ns/100m      | 78 %                                     |

Current

| Max. Recommended Current [A]    |
|---------------------------------|
| 2.2 Amps per conductor @ 25°C A |

Voltage

| UL Description    | UL Voltage Rating            |
|-------------------|------------------------------|
| UL AWM Style 2919 | 30 V RMS (UL AWM Style 2919) |
| CM                | 300 V RMS (CM)               |

Temperature Range

|                       |                          |
|-----------------------|--------------------------|
| UL Temp Rating:       | 80°C (UL AWM Style 2919) |
| Operating Temp Range: | -30°C To +80°C           |

Mechanical Characteristics

|                             |               |
|-----------------------------|---------------|
| Bulk Cable Weight:          | 24 lbs/1000ft |
| Min Bend Radius/Minor Axis: | 2.25 in       |

Standards

|                          |                  |
|--------------------------|------------------|
| NEC/(UL) Specification:  | CM               |
| CEC/C(UL) Specification: | CM               |
| UL AWM Style:            | 2919 (30 V 80°C) |
| CPR Euroclass:           | Eca              |

Applicable Environmental and Other Programs

|                                       |                               |
|---------------------------------------|-------------------------------|
| EU Directive 2000/53/EC (ELV):        | Yes                           |
| EU Directive 2003/96/EC (BFR):        | Yes                           |
| EU Directive 2011/65/EU (ROHS II):    | Yes                           |
| EU Directive 2012/19/EU (WEEE):       | Yes                           |
| EU Directive Compliance:              | EU Directive 2003/11/EC (BFR) |
| EU CE Mark:                           | Yes                           |
| EU RoHS Compliance Date (yyyy-mm-dd): | 2004-01-01                    |
| CA Prop 65:                           | Yes                           |
| MII Order #39 (China RoHS):           | Yes                           |

Flammability, LS0H, Toxicity Testing

|                       |                              |
|-----------------------|------------------------------|
| UL Flammability:      | UL1685 UL Loading            |
| ISO/IEC Flammability: | IEC 60332-1-2                |
| UL voltage rating:    | 30 V RMS (UL AWM Style 2919) |

Plenum/Non-Plenum

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

Part Number

Variants

| Item #       | Color  | UPC          |
|--------------|--------|--------------|
| 9925 060100  | Chrome | 612825263678 |
| 9925 0601000 | Chrome | 612825263685 |
| 9925 060500  | Chrome | 612825263692 |

|           |                        |
|-----------|------------------------|
| Footnote: | C - CRATE REEL PUT-UP. |
|-----------|------------------------|

Product Notes

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

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.307 Revision Date: 05-05-2020 |
|----------------------|--------------------------------------------------|

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