

**Part Number:** 9729

RS-232/422 Low Cap, #24-2pr, FPO, Indiv. Foil, PVC Jkt, CM, 100Ω

Product Description

Computer EIA RS-232/422, Digital Audio Cable, 24 AWG stranded (7x32) tinned copper conductors, Datalene® insulation, twisted pairs, individually Beldfoil® shielded (100% coverage), 24 AWG stranded tinned copper drain wire, PVC jacket.

Product Specifications

AG.Filter Attributes

| | |
|-----------------------------|---|
| Total Number of Conductors: | 4 |
|-----------------------------|---|

Technical Specifications

AG_0401

| | |
|-------------------|-------------------|
| UL Flammability: | UL1685 UL Loading |
| CSA Flammability: | FT1 |

APAC Standard

| | |
|-----------------------------|-----|
| MII Order #39 (China RoHS): | Yes |
|-----------------------------|-----|

Applicable Patents

| | |
|---------|---|
| Patent: | http://www.belden.com/p |
|---------|---|

Bend Radius

| | |
|-----------------------------|---------|
| Min Bend Radius/Minor Axis: | 2.75 in |
|-----------------------------|---------|

CCB-Sub-Part Number

| | |
|----------------|--------------|
| Plenum (Y/N): | No |
| Plenum Number: | 89729, 82729 |

Contact Information

| | |
|------------|---------------|
| PHONE_NUM: | 1-800-Belden1 |
|------------|---------------|

EU Directive

| | |
|---------------------------------------|-------------------------------|
| EU Directive Compliance: | EU Directive 2003/11/EC (BFR) |
| EU CE Mark: | Yes |
| EU RoHS Compliance Date (yyyy-mm-dd): | 2004-01-01 |

North American Standard

| | |
|-----------------------------------|-------------------|
| CA Prop 65 (CJ for Wire & Cable): | Yes |
| CEC/C(UL) Specification: | CM |
| NEC Articles: | 800 |
| NEC/(UL) Specification: | CM |
| UL AWM Style: | 2493 (300 V 60°C) |

Unused Attributes

| | |
|--------|--|
| 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. |
|--------|--|

Use

| | |
|----------------------------------|--------|
| Max Recommended Pulling Tension: | 22 lbs |
| Suitability - Indoor: | Yes |

Impedance:

Nominal Characteristic Impedance

100 Ohm

Inductance:

Nominal Inductance

0.23 μ H/ft

Conductor DCR:

Individual Pair Nominal Shield DCR

Nominal Conductor DCR

15 Ohm/1000ft

24 Ohm/1000ft

Color Chart 1:

| Number | Color |
|--------|---------------|
| 1 | Black & Red |
| 2 | Black & White |
| 16 | |

Color Chart 2:

| Number |
|--------|
| 16 |

Delay:

| Max. Delay Skew | Nominal Velocity of Propagation (VP) [%] |
|-----------------|--|
| 76 ns/100m | 76 % |

Voltage:

| UL Voltage Rating |
|-------------------|
| 300V RMS V |

Performance:

| Frequency [MHz] |
|------------------|
| 16 |

Current:

| Element | Max. Recommended Current [A] |
|-------------------------------|------------------------------|
| 1 Amps per conductor @ 25°C A | |
| 10C Temperature Rise | |

High Freq:

| Frequency [MHz] | Max. Insertion Loss (Attenuation) | Min. ACRF (ELFEXT) [dB] | Min. PSACRF (PSELFEXT) [dB] | Min. SRL (Structural Return Loss) |
|-----------------|-----------------------------------|-------------------------|-----------------------------|-----------------------------------|
| 0.384 MHz | | | | |
| 0.7056 MHz | | | | |
| 0.768 MHz | | | | |
| 1.024 MHz | | | | |
| 1.4112 MHz | | | | |
| 1.536 MHz | | | | |
| 2.048 MHz | | | | |

| | | | | | |
|-------------|------------|-------|--|-------|--|
| 2.8224 MHz | | | | | |
| 3.072 MHz | | | | | |
| 4.096 MHz | 16 dB/100m | | | | |
| 5.6448 MHz | | | | 16 dB | |
| 6.144 MHz | | | | | |
| 8.192 MHz | | | | | |
| 11.2896 MHz | | | | | |
| 12.288 MHz | | | | | |
| 24.576 MHz | | | | | |
| 16 MHz | | 16 dB | | | |
| | | 16 dB | | | |
| 16 MHz | | | | | |

Innershield:

| Type | Material | Material Trade Name | Coverage [%] | Drainwire Material | Drainwire AWG | Drainwire Construction n x D |
|------|------------------------------|---------------------|--------------|--------------------|---------------|------------------------------|
| Tape | Aluminum Foil-Polyester Tape | Beldfoil® (Z-Fold®) | 100 % | TC - Tinned Copper | 24 | 7x32 mm |

Capacitance:

| Nom. Capacitance Conductor to Conductor | Nom. Capacitance Conductor to Other Conductor to Shield |
|---|---|
| 12.5 pF/ft | 23.2 pF/ft |

High Frequency (Nominal/Typical):

| Frequency [MHz] | Nom. Insertion Loss |
|-----------------|---------------------|
| 0.384 MHz | 0.74 dB/100m |
| 0.7056 MHz | 0.87 dB/100m |
| 0.768 MHz | 0.88 dB/100m |
| 1.024 MHz | 0.94 dB/100m |
| 1.4112 MHz | 1.01 dB/100m |
| 1.536 MHz | 1.03 dB/100m |
| 2.048 MHz | 1.13 dB/100m |
| 2.8224 MHz | 1.29 dB/100m |
| 3.072 MHz | 1.35 dB/100m |

| | |
|-------------|---------------|
| 4.096 MHz | 1.57 dB/100m |
| 5.6448 MHz | 1.78 dB/100m |
| 6.144 MHz | 1.84 dB/100m |
| 8.192 MHz | 2.13 dB/100m |
| 11.2896 MHz | 2.45 dB/100ft |
| 12.288 MHz | 2.57 dB/100ft |
| 24.576 MHz | 3.57 dB/100ft |

Stranding:

| Lay Length | Lay Direction | Twists |
|------------|---------------|--------------|
| 1.75 in | Left Hand | 6.9 twist/ft |

Insulation:

| Material | Material Trade Name | Nominal Wall Thickness |
|-------------------------|---------------------|------------------------|
| FPE - Foam Polyethylene | Datalene® | 0.019 in |

Outerjacket 1:

| Material | Nominal Diameter | Nominal Wall Thickness |
|--------------------------|------------------|------------------------|
| PVC - Polyvinyl Chloride | 0.266 in | 0.048 in |

Conductor:

| AWG | Stranding | Material | Nominal Diameter | No. of Pairs |
|-----|-----------|--------------------|------------------|--------------|
| 24 | 7x32 | TC - Tinned Copper | 0.024 in | 2 |

Product Variants

| Part Number | Color | Put-Up Type | Length |
|---------------|--------|-------------|----------|
| 9729 | | | |
| 9729 | CHROME | Reel | 3048 m |
| 9729 06010000 | CHROME | Reel | 10000 ft |
| 9729 | | | |
| 9729 | CHROME | Reel | 305 m |
| 9729 0601000 | CHROME | Reel | 1000 ft |
| 9729 | | | |
| 9729 | CHROME | Reel | 30 m |
| 9729 060100 | CHROME | Reel | 100 ft |
| 9729 | | | |
| 9729 0605000 | CHROME | Reel | 5000 ft |
| 9729 | | | |
| 9729 | CHROME | Reel | 152 m |
| 9729 060500 | CHROME | Reel | 500 ft |
| 9729 | CHROME | Reel | 1100 m |
| 9729 | CHROME | Reel | 2000 m |
| 9729.00305 | CHROME | Reel | 305 m |
| 9729 | CHROME | Reel | 30 m |
| 9729 | CHROME | Reel | 500 m |
| 9729.01152 | CHROME | Reel | 152 m |
| 9729 | CHROME | Reel | 305 m |
| 9729 | | | |

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