



Part Number: 82842

RS-485, #24-2pr, FFEP, O/A Foil+Braid, LS-PVC Jkt, CMP, 120Ω

Product Description

Computer EIA RS-485 Cable, 24 AWG stranded (7x32) tinned copper conductors, foam FEP insulation, twisted pairs, overall Beldfoil® (100% coverage) + tinned copper braid shield (90% coverage), 24 AWG stranded tinned copper drain wire, Flammarrest® jacket, plenum rated

Technical Specifications

Physical Characteristics (Overall)

Conductor

| AWG | Stranding | Material | No. of Conductors | No. of Pairs |
|-----|-----------|--------------------|-------------------|--------------|
| 24 | 7x32 | TC - Tinned Copper | 4 | 2 |

| | |
|------------------|---|
| Conductor Count: | 4 |
|------------------|---|

Insulation

| Element | Material | Material Trade Name | Nominal Wall Thickness |
|---------|--|---------------------|------------------------|
| 22 | FFEP - Foam Fluorinated Ethylene Propylene | Teflon® | 0.019 in |

Color Chart

| Number | Color |
|--------|-----------------------------|
| 1 | White/Blue & Blue/White |
| 2 | White/Orange & Orange/White |

Outer Shield Material

| Type | Layer | Material | Material Trade Name | Coverage [%] | Drainwire Material | Drainwire AWG | Drainwire Construction n x D |
|-------|-------|--------------------|---------------------|--------------|--------------------|---------------|------------------------------|
| Tape | 1 | Aluminum/Polyester | Beldfoil® | 100 % | TC - Tinned Copper | 24 | 7x32 mm |
| Braid | 2 | TC - Tinned Copper | | 90 % | | | |

Outer Jacket Material

| Material | Material Trade Name | Nominal Diameter | Nominal Wall Thickness |
|---------------------------------------|---------------------|------------------|------------------------|
| LS PVC - Low Smoke Polyvinyl Chloride | Flammarrest® | 0.273 in | 0.015 in |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR | Nominal Outer Shield DCR |
|-----------------------|--------------------------|
| 24 Ohm/1000ft | 2.4 Ohm/1000ft |

Capacitance

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

Impedance

| Nominal Characteristic Impedance |
|----------------------------------|
| 120 Ohm |

Delay

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

Current

Max. Recommended Current [A]

3.2 Amps per conductor @ 25°C A

Voltage

UL Voltage Rating

300 V RMS

Temperature Range

Operating Temp Range: -20°C To +75°C

Mechanical Characteristics

Bulk Cable Weight: 38 lbs/1000ft

Max Recommended Pulling Tension: 56.7 lbs

Min Bend Radius/Minor Axis: 2.75 in

Standards

NEC/(UL) Specification: CMP

CEC/C(UL) Specification: CMP

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): 2005-10-01

CA Prop 65 (CJ for Wire & Cable): Yes

MII Order #39 (China RoHS): Yes

Flammability, LS0H, Toxicity Testing

UL Flammability: NFPA 262 Plenum Flame Test (UL910)

CSA Flammability: FT6

ISO/IEC Flammability: IEC 60332-1-2

UL voltage rating: 300 V RMS

Plenum/Non-Plenum

Plenum (Y/N): Yes

Part Number

Non-Plenum Number: 9842

Variants

| Item # | Color | UPC | Footnote |
|---------------|---------|--------------|----------|
| 82842 8771000 | Natural | 612825198192 | C |
| 82842 877500 | Natural | 612825198208 | C |
| 82842 8775000 | Natural | 612825198215 | |

Footnote: C - CRATE REEL PUT-UP.

Product Notes

Notes: Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.

History

Update and Revision: Revision Number: 0.299 Revision Date: 08-22-2019

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