



RS232/485 Low Cap, #28-18pr, FPE, O/A Foil+Braid, PVC Jkt, CL2, 120Ω

Product Description

Computer EIA RS-232/485 Cable, 18-Pair, 28 AWG stranded (7x36) tinned copper conductors, Datalene® insulation, overall Beldfoil® (100% coverage) + tinned copper braid shield (65% coverage), 28 AWG stranded tinned copper drain wire, PVC jacket.

Technical Specifications

Product Overview

| Suitable Applications: | RS-232 extended distance applications; RS-485 applications; computer communications; low voltage analog signals (4-20ma, 0-10v,); low voltage digital control (24v,); line level audio; panel wiring |
|------------------------|--|

Construction Details

Conductor

| Element | Number of Element | Size | Stranding | Material |
|---------|-------------------|--------|-----------|--------------------|
| Pair(s) | 18 | 28 AWG | 7x36 | TC - Tinned Copper |

Insulation

| Element | Material | Nom. Thickness | Color Code |
|---------|--------------------------------|-------------------------|--|
| Pair(s) | PE - Polyethylene (Foam) | 0.0145 in (0.368 mm) | White/Blue Stripe & Blue/White Stripe, White/Orange Stripe & Orange/White Stripe, White/Green Stripe & Green/White Stripe, White/Brown Stripe & Brown/White Stripe, White/Gray Stripe & Gray/White Stripe, Red/Blue Stripe & Blue/Red Stripe, Red/Orange Stripe & Orange/Red Stripe, Red/Green Stripe & Green/Red Stripe, Red/Brown Stripe & Brown/Red Stripe, Red/Gray Stripe & Gray/Red Stripe, Black/Blue Stripe & Blue/Black Stripe, Black/Orange Stripe & Orange/Black Stripe, Black/Green Stripe & Green/Black Stripe, Black/Brown Stripe & Brown/Black Stripe, Black/Gray Stripe & Gray/Red Stripe, Black/Green Stripe & Green/Black Stripe, Black/Brown Stripe & Brown/Black Stripe, Black/Gray Stripe & Gray/Black Stripe, Yellow/Blue Stripe & Blue/Yellow Stripe, Yellow/Orange Stripe & Orange/Yellow Stripe, Yellow/Green Stripe & Green/Yellow Stripe |

Outer Shield

| Shield Type | Material | Coverage | Drainwire Type |
|-------------|-------------------------|----------|------------------|
| Таре | Bi-Laminate (Alum+Poly) | 100% | 28 AWG (7x36) TC |
| Braid | Tinned Copper (TC) | 65% | |

Outer Jacket

| Material Nom. T | | kness | Nom. Diameter |
|---------------------------------------|--|-------|--------------------|
| PVC - Polyvinyl Chloride 0.045 in (1. | | 1 mm) | 0.467 in (11.9 mm) |
| Overall Cable Diameter (Nominal): | | 0.467 | in (11.9 mm) |

Electrical Characteristics

Electricals

| Element | Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Nom. Characteristic Impedence | Nom. Velocity of Prop. | Max. Current |
|---------|-------------------------------|----------------------------------|--|----------------------------------|---------------------------|----------------------------------|
| Pair(s) | 65 Ohm/1000ft (210 Ohm/km) | 11 pF/ft (36 pF/m) | 20 pF/ft (66 pF/m) | 120 Ohm | 78% | 0.6 Amps per Conductor at 25℃ |

Voltage

UL Voltage Rating

30 V (UL AWM 2919)

Mechanical Characteristics

UL Temperature Operating 80°C (UL AWM 2919) -30°C to +80°C

Bulk Cable Weight:

85 lbs/1000ft (130 kg/km)

Standards and Compliance

| - | |
|----------------------------------|--|
| Flammability / Reaction to Fire: | UL1685 UL Loading, IEC 60332-1-2 |
| CPR Compliance: | CPR Euroclass: Eca |
| NEC / UL Compliance: | CL2 |
| AWM Compliance: | AWM 2919 |
| European Directive Compliance: | EU CE Mark, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE) |
| UK Regulation Compliance: | UKCA Mark |
| APAC Compliance: | China RoHS II (GB/T 26572-2011) |

Product Notes

| | No | DIES: | 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. |
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|--|----|-------|--|

History

| Update | and Revision: | |
|--------|---------------|--|
| | | |

Revision Number: 0.328 Revision Date: 05-05-2023

UPC

1,000 ft 612825195481

Part Numbers

Variants Item # Color Putup Type Length 8148 060500 Chrome Reel 500 ft 612825195498

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8148 0601000 Chrome Reel

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