



Product: [538AFS](#)

Access Control, 16c (#18-3pr, #16-4c, #18-6c), Shielded, Banana Peel®, CMR

Product Description

Access Control Cable, Riser-CMR, 3-18 AWG pairs, 4-16 AWG conductors, 4-18 AWG conductors, 2-18 AWG conductors, All conductors stranded bare copper with polypropylene insulation, Each cable has overall Beldfoil® shield and PVC jacket, Banana Peel® No overall jacket

Technical Specifications

Product Overview

| | |
|------------------------|--|
| Suitable Applications: | Access Control, Security System, Power Limited Controls |
| Patent: | This product has one or more applicable patents. More information on patents can be found at https://www.belden.com/resources/patents . |

Construction Details

Conductor

| Element Description | Element | Number of Element | AWG | Stranding | Material |
|---------------------|--------------|-------------------|-----|-----------|------------------|
| Card Reader | Pair(s) | 3 | 18 | 7x26 | BC - Bare Copper |
| Door Contact | Conductor(s) | 2 | 18 | | BC - Bare Copper |
| REX/Spare | Conductor(s) | 4 | 18 | | BC - Bare Copper |
| Lock Power | Conductor(s) | 4 | 16 | | BC - Bare Copper |

Insulation

| Element Description | Element | Material | Thickness [in.] | Color Code |
|---------------------|--------------|--------------------|-----------------|--|
| Card Reader | Pair(s) | PP - Polypropylene | 0.007 | Black & Red, White & Green, Brown & Orange |
| Door Contact | Conductor(s) | PP - Polypropylene | 0.007 | Black, Red |
| REX/Spare | Conductor(s) | PP - Polypropylene | 0.007 | Black, Red, White, Green |
| Lock Power | Conductor(s) | PP - Polypropylene | 0.008 | Black, Red, White, Green |

Inner Shield Material

| Element Description | Element | Shield Type | Material | Coverage | Drainwire Type |
|---------------------|--------------|-------------|-------------------------|----------|------------------|
| Card Reader | Pair(s) | Tape | Bi-Laminate (Alum+Poly) | 100% | 24 AWG (7x32) TC |
| Door Contact | Conductor(s) | Tape | Bi-Laminate (Alum+Poly) | 100% | 24 AWG (7x32) TC |
| REX/Spare | Conductor(s) | Tape | Bi-Laminate (Alum+Poly) | 100% | 24 AWG (7x32) TC |
| Lock Power | Conductor(s) | Tape | Bi-Laminate (Alum+Poly) | 100% | 24 AWG (7x32) TC |

Inner Jacket Material

| Element Description | Element | Material | Nom. Diameter | Ripcord | Color |
|---------------------|--------------|--------------------------|---------------|---------|--------|
| Card Reader | Pair(s) | PVC - Polyvinyl Chloride | 0.272 in | Yes | Orange |
| Door Contact | Conductor(s) | PVC - Polyvinyl Chloride | 0.162 in | Yes | White |
| REX/Spare | Conductor(s) | PVC - Polyvinyl Chloride | 0.194 in | Yes | Blue |
| Lock Power | Conductor(s) | PVC - Polyvinyl Chloride | 0.220 in | Yes | Gray |

Outer Jacket Material

| Nom. Diameter |
|---------------|
| 0.516 in |

| | |
|---------------------------|--------------|
| Table Notes: | Banana Peel® |
| Cable Diameter (Nominal): | 0.516 in |

Electrical Characteristics

Electricals

| Element Description | Element | Nom. Conductor DCR | Nom. Inner Shield DCR | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Shield | Max. Current |
|---------------------|--------------|--------------------|-----------------------|-------------------------------|---------------------------------|------------------------------|
| Card Reader | Pair(s) | 6.6 Ohm/1000ft | 13.1 Ohm/1000ft | 29 pF/ft | 52.25 pF/ft | 4 Amps per Conductor at 25°C |
| Door Contact | Conductor(s) | 6.6 Ohm/1000ft | 16.7 Ohm/1000ft | 52.5 pF/ft | 94.5 pF/ft | 4 Amps per Conductor at 25°C |
| REX/Spare | Conductor(s) | 6.6 Ohm/1000ft | 15.9 Ohm/1000ft | 29 pF/ft | 52.25 pF/ft | 4 Amps per Conductor at 25°C |
| Lock Power | Conductor(s) | 4 Ohm/1000ft | 15.9 Ohm/1000ft | 30.5 pF/ft | 55 pF/ft | 5 Amps per Conductor at 25°C |

Voltage

| |
|--------------------------|
| UL Voltage Rating |
| 300 V (UL CMR) |

Mechanical Characteristics

Temperature

| |
|------------------|
| Operating |
| 0°C to +75°C |

Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 5 in | 5.2 in |

| | |
|--------------------|----------------|
| Max. Pull Tension: | 428 lbs |
| Bulk Cable Weight: | 148 lbs/1000ft |

Standards and Compliance

| | |
|---------------------------------|---|
| Environmental Suitability: | Indoor - Riser, Indoor |
| Sustainability: | Product Lens™, Environmental Product Declaration (EPD) Available |
| Flammability / Fire Resistance: | UL1666 Riser, IEC 60332-1-2 |
| NEC / UL Compliance: | Article 800, CMR |
| CEC / C(UL) Compliance: | CMG |
| CPR Euroclass: | Eca |
| European Directive Compliance: | EU CE Mark, EU Directive 2015/863/EU, EU Directive 2011/65/EU (ROHS II), EU Directive 2012/19/EU (WEEE) |
| APAC Compliance: | China RoHS II (GB/T 26572-2011) |
| Plenum Number: | 638AFS |

Product Notes

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|--------|--|
| Notes: | Cold environment installation: When installing cables that have been stored at ambient temperatures of 32 degrees Fahrenheit (0 degrees Centigrade) or lower, Belden recommends conditioning of the cable for 12 hours at room temperature prior to individual cable leg separation. |
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History

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| Update and Revision: | Revision Number: 0.341 Revision Date: 08-25-2020 |
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