



Product: 658AFS ☑

Access Control, 16c (#22-3pr, #18-4c, #22-6c), Shielded, Banana Peel®, CMP

# **Product Description**

Access Control Cable, Plenum-CMP, 3-22 AWG pairs, 4-18 AWG conductors, 4-22 AWG conductors, 2-22 AWG conductors, All conductors stranded bare copper with Flamarrest® insulation, Each cable has overall Beldfoil® shield and Flamarrest® jacket, Banana Peel® No overall jacket

# **Technical Specifications**

## **Product Overview**

| Product Category:      | Access Control  |  |
|------------------------|---|--|
| Suitable Applications: | Access Control, Security System, Power Limited Controls |  |
| Patent:                | https://www.belden.com/resources/patents                |  |

# **Construction Details**

## Conductor

| Cable Description | Element      | Number of Element | AWG | Stranding | Material         |
|-------------------|--------------|-------------------|-----|-----------|------------------|
| Card Reader       | Pair(s)      | 3                 | 22  | 7x30      | BC - Bare Copper |
| Door Contact      | Conductor(s) | 2                 | 22  | 7x30      | BC - Bare Copper |
| REX / Spare       | Conductor(s) | 4                 | 22  | 7x30      | BC - Bare Copper |
| Lock Power        | Conductor(s) | 4                 | 18  | 7x26      | BC - Bare Copper |

## Insulation

| Cable Description | Element      | Material                                | Color                                      |
|-------------------|--------------|---|--|
| Card Reader       | Pair(s)      | PVC-LS - Polyvinyl Chloride (Low Smoke) | Black & Red, White & Green, Brown & Orange |
| Door Contact      | Conductor(s) | PVC-LS - Polyvinyl Chloride (Low Smoke) | Black, Red                                 |
| REX / Spare       | Conductor(s) | PVC-LS - Polyvinyl Chloride (Low Smoke) | Black, Red, White, Green                   |
| Lock Power        | Conductor(s) | PVC-LS - Polyvinyl Chloride (Low Smoke) | Black, Red, White, Green                   |

## Inner Shield Material

| Cable Description | Element      | Type | Material    | Coverage | Drain Type |
|-------------------|--------------|------|-------------|----------|------------|
| Card Reader       | Pair(s)      | Tape | Alum / Poly | 100 %    | 7x32 - TC  |
| Door Contact      | Conductor(s) | Tape | Alum / Poly | 100 %    | 7x32 - TC  |
| REX / Spare       | Conductor(s) | Tape | Alum / Poly | 100 %    | 7x32 - TC  |
| Lock Power        | Conductor(s) | Tape | Alum / Poly | 100 %    | 7x32 - TC  |

# Inner Jacket Material

| Cable Description | Element      | Material                                | Nominal Diameter | Ripcord | Color  |
|-------------------|--------------|---|------------------|---------|--------|
| Card Reader       | Pair(s)      | PVC-LS - Polyvinyl Chloride (Low Smoke) | 0.216 in         | Yes     | Orange |
| Door Contact      | Conductor(s) | PVC-LS - Polyvinyl Chloride (Low Smoke) | 0.128 in         | Yes     | White  |
| REX / Spare       | Conductor(s) | PVC-LS - Polyvinyl Chloride (Low Smoke) | 0.147 in         | Yes     | Blue   |
| Lock Power        | Conductor(s) | PVC-LS - Polyvinyl Chloride (Low Smoke) | 0.193 in         | Yes     | Gray   |

# **Outer Jacket Material**

| Material | Nominal Diameter |
|----------|------------------|
| None     | 0.420 in         |

OuterJacket1, Table Note: Banana Peel®

## **Electrical Characteristics**

#### Electricals

| Cable Description | Element      | Nom. Conductor DCR | Nom. Inner Shield DCR | Nom. Capacitance Cond-to-Cond | Max. Current       |
|-------------------|--------------|--------------------|-----------------------|-------------------------------|--------------------|
| Card Reader       | Pair(s)      | 16.3 Ohm/1000ft    | 14.9 Ohm/1000ft       | 33 pF/ft                      | 2A @ 25C ambient   |
| Door Contact      | Conductor(s) | 16.4 Ohm/1000ft    | 17.2 Ohm/1000ft       | 55 pF/ft                      | 2.2A @ 25C ambient |
| REX / Spare       | Conductor(s) | 16.4 Ohm/1000ft    | 17.2 Ohm/1000ft       | 33 pF/ft                      | 2.2A @ 25C ambient |
| Lock Power        | Conductor(s) | 6.5 Ohm/1000ft     | 16.4 Ohm/1000ft       | 40 pF/ft                      | 4A @ 25C ambient   |

## **Mechanical Characteristics**

## Temperature

Operating

0°C to +75°C

#### **Bend Radius**

Stationary Min. 4.2 in

Max Recommended Pulling Tension:

200 lbs

## **Standards and Compliance**

| Environmental Suitability:     | Indoor - Plenum, Indoor   |
|--------------------------------|---|
| Sustainability:                | Environmental Product Declaration (EPD)=Yes, Product Lens(TM)=Yes, CA Prop 65 (CJ for Wire and Cable)=Yes |
| 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 2  |

## **Product Notes**

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

# History

| Update and Revision: | Revision Number: 0.291 Revision Date: 05-07-2020 |
|----------------------|--|

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