

**Product: [658AFS](#)**


Access Control, 16c (#22-3pr, #18-4c, #22-4c, #22-2c), 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**

|                        |  |
|------------------------|--|
| 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 <a href="https://www.belden.com/patents">https://www.belden.com/patents</a> . |

**Construction Details**
**Conductor**

| Element Description | Element      | No. of Elements | Size   | Stranding | Material         |
|---------------------|--------------|-----------------|--------|-----------|------------------|
| Card Reader         | Pair(s)      | 3               | 22 AWG | 7x30      | BC - Bare Copper |
| Door Contact        | Conductor(s) | 2               | 22 AWG | 7x30      | BC - Bare Copper |
| REX/Spare           | Conductor(s) | 4               | 22 AWG | 7x30      | BC - Bare Copper |
| Lock Power          | Conductor(s) | 4               | 18 AWG | 7x26      | BC - Bare Copper |

**Insulation**

| Element Description | Element      | Material                 | Nom. Thickness     | Nom. Insulation Diameter | Color Code                                 |
|---------------------|--------------|--------------------------|--------------------|--------------------------|--|
| Card Reader         | Pair(s)      | PVC - Polyvinyl Chloride | 0.009 in (0.23 mm) | 0.047 in (1.2 mm)        | Black & Red, White & Green, Brown & Orange |
| Door Contact        | Conductor(s) | PVC - Polyvinyl Chloride | 0.009 in (0.23 mm) | 0.047 in (1.2 mm)        | Black, Red                                 |
| REX/Spare           | Conductor(s) | PVC - Polyvinyl Chloride | 0.009 in (0.23 mm) | 0.047 in (1.2 mm)        | Black, Red, White, Green                   |
| Lock Power          | Conductor(s) | PVC - Polyvinyl Chloride | 0.010 in (0.25 mm) | 0.066 in (1.7 mm)        |  |

**Inner Shield**

| 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**

| Element Description | Element      | Material                 | Nom. Thickness     | Nom. Diameter      | Ripcord | Color  |
|---------------------|--------------|--------------------------|--------------------|--------------------|---------|--------|
| Card Reader         | Pair(s)      | PVC - Polyvinyl Chloride | 0.015 in (0.38 mm) | 0.216 in (5.49 mm) | Yes     | Orange |
| Door Contact        | Conductor(s) | PVC - Polyvinyl Chloride | 0.015 in (0.38 mm) | 0.128 in (3.25 mm) | Yes     | White  |
| REX/Spare           | Conductor(s) | PVC - Polyvinyl Chloride | 0.015 in (0.38 mm) | 0.193 in (4.90 mm) | Yes     | Blue   |
| Lock Power          | Conductor(s) | PVC - Polyvinyl Chloride | 0.015 in (0.38 mm) | 0.193 in (4.90 mm) | Yes     | Gray   |

**Outer Jacket**

| Material  | Nom. Diameter      |
|-----------|--------------------|
| No Jacket | 0.420 in (10.7 mm) |

|                                   |                    |
|-----------------------------------|--------------------|
| Outer Jacket1 Table Notes:        | Banana Peel®       |
| Overall Cable Diameter (Nominal): | 0.420 in (10.7 mm) |

## 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)      | 16.3 Ohm/1000ft (53.5 Ohm/km) | 17.42 Ohm/1000ft (57.15 Ohm/km) | 33 pF/ft (110 pF/m)           | 60 pF/ft (200 pF/m)             | 2.2 Amps per Conductor at 25°C |
| Door Contact        | Conductor(s) | 16.4 Ohm/1000ft (53.8 Ohm/km) | 16.19 Ohm/1000ft (53.12 Ohm/km) | 55 pF/ft (180 pF/m)           | 99 pF/ft (320 pF/m)             | 2.2 Amps per Conductor at 25°C |
| REX/Spare           | Conductor(s) | 16.4 Ohm/1000ft (53.8 Ohm/km) | 19.44 Ohm/1000ft (63.78 Ohm/km) | 33 pF/ft (110 pF/m)           | 59 pF/ft (190 pF/m)             | 2.2 Amps per Conductor at 25°C |
| Lock Power          | Conductor(s) | 6.5 Ohm/1000ft (21 Ohm/km)    | 18.38 Ohm/1000ft (60.30 Ohm/km) | 40 pF/ft (130 pF/m)           | 76 pF/ft (250 pF/m)             | 4 Amps per Conductor at 25°C   |

Nom Outer Shield DCR: 17.8 Ohm/1000ft (58.4 Ohm/km)

### Voltage

#### UL Voltage Rating

300 V (CMP)

## Mechanical Characteristics

### Temperature

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

### Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 4.2 in (110 mm) | 4.2 in (110 mm)   |

Max. Pull Tension: 200 lbs (91 kg)

Bulk Cable Weight: 100 lbs/1000ft (150 kg/km)

## Standards and Compliance

|                                  |   |
|----------------------------------|---|
| Environmental Suitability:       | Indoor - Plenum, Indoor   |
| Sustainability:                  | Product Lens™, Environmental Product Declaration (EPD) Available  |
| Flammability / Reaction to Fire: | NFPA 262, UL 910 (Plenum), FT6  |
| CPR Compliance:                  | CPR Euroclass: Eca  |
| NEC / UL Compliance:             | Article 800, CMP  |
| CEC / C(UL) Compliance:          | CMP   |
| European Directive Compliance:   | EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), 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)   |
| Non-Plenum Number:               | 558AFS  |

## 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 recommends conditioning of the cable for 12 hours at room temperature prior to individual cable leg separation. |
|--------|--|

## History

Update and Revision: Revision Number: 0.670 Revision Date: 11-05-2025

## Part Numbers

### Variants

| Item #         | Color                     | Putup Type | Length   | UPC          | Footnote |
|----------------|---------------------------|------------|----------|--------------|----------|
| 658AFS 000500  | Orange, White, Blue, Gray | Reel       | 500 ft   | 612825178620 | C        |
| 658AFS 0001000 | Orange, White, Blue, Gray | Reel       | 1,000 ft | 612825340522 | C        |

Footnote: C - CRATE REEL PUT-UP.

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