



**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

Suitable Applications:	Access Control, Security System, Power Limited Controls
Patent:	<a href="https://www.belden.com/resources/patents">https://www.belden.com/resources/patents</a>

### Construction Details

#### Conductor

Element 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

Element Description	Element	Material	Color Code
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

Element Description	Element	Type	Material	Coverage	Drain Type
Card Reader	Pair(s)	Tape	Alum / Poly	100%	24 AWG (7x32) TC
Door Contact	Conductor(s)	Tape	Alum / Poly	100%	24 AWG (7x32) TC
REX / Spare	Conductor(s)	Tape	Alum / Poly	100%	24 AWG (7x32) TC
Lock Power	Conductor(s)	Tape	Alum / Poly	100%	24 AWG (7x32) TC

#### Inner Jacket Material

Element 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	Diameter
None	0.420 in

Table Notes: Banana Peel®

### Electrical Characteristics

## Electricals

Element 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	2 Amps per conductor at 25°C
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

## Voltage

### UL Voltage Rating

300 V (UL CMP)

## Mechanical Characteristics

### Temperature

#### Operating

0°C to +75°C

### Bend Radius

#### Stationary Min.

4.2 in

Max. Pull Tension: 200 lbs

Bulk Cable Weight: 100 lbs/1000ft

## Standards and Compliance

Environmental Suitability:	Indoor - Plenum, Indoor
Sustainability:	Product Lens™, Environmental Product Declaration (EPD) Available
Flammability / Fire Resistance:	NFPA 262, FT6, FT6, IEC 60332-1-2
NEC / UL Compliance:	Article 800, CMP
CEC / C(UL) Compliance:	CMP
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)

## 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: 0.309 Revision Date: 06-05-2020

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