



**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 <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	18	7x26	BC - Bare Copper
Door Contact	Conductor(s)	2	18	7x26	BC - Bare Copper
REX/Spare	Conductor(s)	4	18	7x26	BC - Bare Copper
Lock Power	Conductor(s)	4	16	19x29	BC - Bare Copper

**Insulation**

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

<b>UL Voltage Rating</b>
300 V (UL CMR)

## Mechanical Characteristics

### Temperature

<b>Operating</b>
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

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

Update and Revision:	Revision Number: 0.349 Revision Date: 09-30-2020
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