



Product: [638AFS](#) 

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

Product Description

Access Control Cable, Plenum-CMP, 3-18 AWG pairs, 4-16 AWG conductors, 4-18 AWG conductors, 2-18 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 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	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 [in.]	Color Code
Card Reader	Pair(s)	PVC-LS - Polyvinyl Chloride (Low Smoke)	0.009	Black & Red, White & Green, Brown & Orange
Door Contact	Conductor(s)	PVC-LS - Polyvinyl Chloride (Low Smoke)	0.008	Black, Red
REX/Spare	Conductor(s)	PVC-LS - Polyvinyl Chloride (Low Smoke)	0.008	Black, Red, White, Green
Lock Power	Conductor(s)	PVC-LS - Polyvinyl Chloride (Low Smoke)	0.009	Black, Red, White, Green

Inner Shield Material

Element Description	Element	Shield Type	Material	Coverage	Drainwire 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	Nom. Diameter	Ripcord	Color
Card Reader	Pair(s)	PVC-LS - Polyvinyl Chloride (Low Smoke)	0.286 in	Yes	Orange
Door Contact	Conductor(s)	PVC-LS - Polyvinyl Chloride (Low Smoke)	0.166 in	Yes	White
REX/Spare	Conductor(s)	PVC-LS - Polyvinyl Chloride (Low Smoke)	0.195 in	Yes	Blue
Lock Power	Conductor(s)	PVC-LS - Polyvinyl Chloride (Low Smoke)	0.222 in	Yes	Gray

Outer Jacket Material

Nom. Diameter
0.542 in

Table Notes:	Banana Peel®
Cable Diameter (Nominal):	0.542 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	40 pF/ft	72 pF/ft	4 Amps per Conductor at 25°C
Door Contact	Conductor(s)	6.6 Ohm/1000ft	16.7 Ohm/1000ft	70 pF/ft	126 pF/ft	4 Amps per Conductor at 25°C
REX/Spare	Conductor(s)	6.6 Ohm/1000ft	15.9 Ohm/1000ft	42 pF/ft	76 pF/ft	4 Amps per Conductor at 25°C
Lock Power	Conductor(s)	4 Ohm/1000ft	15.9 Ohm/1000ft	45 pF/ft	81 pF/ft	5 Amps per Conductor at 25°C

Voltage

UL Voltage Rating
300 V (UL CMP)

Mechanical Characteristics

Temperature

UL Rating	Operating
0°C to +75°C	0°C to +75°C

Bend Radius

Stationary Min.	Installation Min.
5 in	5.4 in

Max. Pull Tension:	428 lbs
Bulk Cable Weight:	176 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor - Plenum, Indoor
Sustainability:	Product Lens™, Environmental Product Declaration (EPD) Available
Flammability / Fire Resistance:	NFPA 262, 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)
Non-Plenum Number:	538AFS

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: 0.314 Revision Date: 07-31-2020
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