



**Product:** [638AFJ](#) 

Access Control, 16c (#18-3pr, #16-4c, #18-6c), Shielded, Outer Jacket, 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 Flamarrrest® insulation, Each cable has overall Beldfoil® shield and Flamarrrest® jackets, Overall Flamarrrest® jacket

### Technical Specifications

#### Product Overview

Suitable Applications:	Access Control, Security System, Power Limited Controls
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#### 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	Nom. Insulation Diameter	Color Code
Card Reader	Pair(s)	PVC - Polyvinyl Chloride		Black & Red, White & Green, Brown & Orange
Door Contact	Conductor(s)	PVC - Polyvinyl Chloride		Black, Red
REX/Spare	Conductor(s)	PVC - Polyvinyl Chloride		Black, Red, White, Green
Lock Power	Conductor(s)	PVC - Polyvinyl Chloride	0.075	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	0.288 in	Yes	Orange
Door Contact	Conductor(s)	PVC - Polyvinyl Chloride	0.168 in	Yes	White
REX/Spare	Conductor(s)	PVC - Polyvinyl Chloride	0.197 in	Yes	Blue
Lock Power	Conductor(s)	PVC - Polyvinyl Chloride	0.224 in	Yes	Gray

##### Outer Jacket Material

Material	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.582 in	Yes

Cable Diameter (Nominal):	0.582 in
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#### 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

##### Operating

0°C to +75°C

#### Bend Radius

##### Stationary Min.

5.8 in

Max. Pull Tension:	253 lbs
Bulk Cable Weight:	181 lbs/1000ft

## Standards and Compliance

Environmental Suitability:	Indoor - Plenum, Indoor
Flammability / Fire Resistance:	NFPA 262, FT6
NEC / UL Compliance:	Article 800, CMP
CEC / C(UL) Compliance:	CMP
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:	538AFJ

## History

Update and Revision:	Revision Number: 0.90 Revision Date: 09-30-2020
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