



Product: [638AMJ](#) 

Access Control, 16c (#18-3pr, #16-4c, #18-6c), Only Card Reader Pairs 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, Only Card Reader pairs have 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)	No Shield			
REX/Spare	Conductor(s)	No Shield			
Lock Power	Conductor(s)	No Shield			

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	0.154 in	Yes	White
REX/Spare	Conductor(s)	PVC - Polyvinyl Chloride	0.180 in	Yes	Blue
Lock Power	Conductor(s)	PVC - Polyvinyl Chloride	0.206 in	Yes	Gray

Outer Jacket Material

Material	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.548 in	Yes

Cable Diameter (Nominal):	0.548 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				4 Amps per Conductor at 25°C
REX/Spare	Conductor(s)	6.6 Ohm/1000ft				4 Amps per Conductor at 25°C
Lock Power	Conductor(s)	4 Ohm/1000ft				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:	235 lbs
Bulk Cable Weight:	166 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:	538AMJ

History

Update and Revision:	Revision Number: 0.61 Revision Date: 09-30-2020
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