



Product: [538AMJ](#)

Access Control, 16c (#18-3pr, #16-4c, #18-6c), Only Card Reader Pairs Shielded, Outer Jacket, 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 polyolefin insulation, Only Card Reader pairs have overall Beldfoil® shield and PVC jackets, Overall PVC jacket

Technical Specifications

Product Overview

Suitable Applications:	Access Control, Security System, Power Limited Controls
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Construction Details

Conductor

Element Description	Element	No. of Elements	Size	Stranding	Material
Card Reader	Pair(s)	3	18 AWG	7x26	BC - Bare Copper
Door Contact	Conductor(s)	2	18 AWG	7x26	BC - Bare Copper
REX/Spare	Conductor(s)	4	18 AWG	7x26	BC - Bare Copper
Lock Power	Conductor(s)	4	16 AWG	19x29	BC - Bare Copper

Insulation

Element Description	Element	Material	Nom. Insulation Diameter	Color Code
Card Reader	Pair(s)	PP - Polypropylene		Black & Red, White & Green, Brown & Orange
Door Contact	Conductor(s)	PP - Polypropylene		Black, Red
REX/Spare	Conductor(s)	PP - Polypropylene		Black, Red, White, Green
Lock Power	Conductor(s)	PP - Polypropylene	0.073 in (1.9 mm)	

Inner Shield

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

Element Description	Element	Material	Nom. Diameter	Ripcord	Color
Card Reader	Pair(s)	PVC - Polyvinyl Chloride	0.272 in (6.91 mm)	Yes	Orange
Door Contact	Conductor(s)	PVC - Polyvinyl Chloride	0.158 in (4.01 mm)	Yes	White
REX/Spare	Conductor(s)	PVC - Polyvinyl Chloride	0.184 in (4.67 mm)	Yes	Blue
Lock Power	Conductor(s)	PVC - Polyvinyl Chloride	0.210 in (5.33 mm)	Yes	Gray

Outer Jacket

Material	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.570 in (14.5 mm)	Yes

Overall Cable Diameter (Nominal):	0.570 in (14.5 mm)
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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 (22 Ohm/km)	13.1 Ohm/1000ft (43.0 Ohm/km)	29 pF/ft (95 pF/m)	52.25 pF/ft (171.4 pF/m)	4 Amps per Conductor at 25°C
Door Contact	Conductor(s)	6.6 Ohm/1000ft (22 Ohm/km)				4 Amps per Conductor at 25°C
REX/Spare	Conductor(s)	6.6 Ohm/1000ft (22 Ohm/km)				4 Amps per Conductor at 25°C
Lock Power	Conductor(s)	4 Ohm/1000ft (13 Ohm/km)				5 Amps per Conductor at 25°C

Voltage

UL Voltage Rating
300 V (UL CMR)

Mechanical Characteristics

Temperature

Operating
-5°C to +75°C

Max. Pull Tension:	235 lbs (107 kg)
Bulk Cable Weight:	170 lbs/1000ft (250 kg/km)

Standards and Compliance

Environmental Suitability:	Indoor - Riser, Indoor
Flammability / Reaction to Fire:	UL1666 Riser
NEC / UL Compliance:	Article 800, CMR
CEC / C(UL) Compliance:	CMR
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Plenum Number:	638AMJ

History

Update and Revision:	Revision Number: 0.81 Revision Date: 05-31-2024
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