




**Product:** [538AFJ](#) 

Access Control, 16c (#18-3pr, #16-4c, #18-6c), 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, Each cable has 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	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)	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	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	0.168 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

Material	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.586 in	Yes

Cable Diameter (Nominal):	0.586 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	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

UL Voltage Rating
300 V (UL CMR)

Mechanical Characteristics

Temperature

Operating
-5°C to +75°C

Bend Radius

Stationary Min.
5.9 in

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

Standards and Compliance

Environmental Suitability:	Indoor - Riser, Indoor
Flammability / Fire Resistance:	UL1666 Riser
NEC / UL Compliance:	Article 800, CMR
CEC / C(UL) Compliance:	CMR
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:	638AFJ

History

Update and Revision:	Revision Number: 0.96 Revision Date: 09-30-2020
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