



Product: [558AMJ](#) 

Access Control, 16c (#22-3pr, #18-4c, #22-4c, #22-2c), Only Card Reader Pairs Shielded, Outer Jacket, CMR

Product Description

Access Control Cable, Riser-CMR, 3-22 AWG pairs, 4-18 AWG conductors, 4-22 AWG conductors, 2-22 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	22 AWG	7x30	BC - Bare Copper
Door Contact	Conductor(s)	2	22 AWG	7x30	BC - Bare Copper
REX/Spare	Conductor(s)	4	22 AWG	7x30	BC - Bare Copper
Lock Power	Conductor(s)	4	18 AWG	7x26	BC - Bare Copper

Insulation

Element Description	Element	Material	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	

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	0.211 in (5.36 mm)	Yes	Orange
Door Contact	Conductor(s)	PVC - Polyvinyl Chloride	0.123 in (3.12 mm)	Yes	White
REX/Spare	Conductor(s)	PVC - Polyvinyl Chloride	0.141 in (3.58 mm)	Yes	Blue
Lock Power	Conductor(s)	PVC - Polyvinyl Chloride	0.184 in (4.67 mm)	Yes	Gray

Outer Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.469 in (11.9 mm)

Overall Cable Diameter (Nominal):	0.469 in (11.9 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)	16.3 Ohm/1000ft (53.5 Ohm/km)	14.9 Ohm/1000ft (48.9 Ohm/km)	24 pF/ft (79 pF/m)	43.25 pF/ft (141.9 pF/m)	2 Amps per Conductor at 25°C
Door Contact	Conductor(s)	16.4 Ohm/1000ft (53.8 Ohm/km)		17 pF/ft (56 pF/m)		2.2 Amps per Conductor at 25°C
REX/Spare	Conductor(s)	16.4 Ohm/1000ft (53.8 Ohm/km)		17 pF/ft (56 pF/m)		2.2 Amps per Conductor at 25°C
Lock Power	Conductor(s)	6.5 Ohm/1000ft (21 Ohm/km)		22 pF/ft (72 pF/m)		4 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:	200 lbs (91 kg)
Bulk Cable Weight:	104 lbs/1000ft (155 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:	658AMJ

History

Update and Revision:	Revision Number: 0.415 Revision Date: 11-07-2025
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