



Product: [558AM1](#)

Indoor/Outdoor Access Control CM Rated Composite

Product Description

Access Control, 16c (#22-6C,18-4c, #22-6c), Only Card Reader Pairs Shielded, Indoor/Outdoor CM

Technical Specifications

Product Overview

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

Conductor

Element Description	Element	No. of Conductors	Size	Stranding	Material
Card Reader	Conductor(s)	6	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	Nom. Thickness	Color Code
Card Reader	Conductor(s)	PVC - Polyvinyl Chloride	.010 in (0.25 mm)	Black, Red, White, Green, Brown, Blue
Door Contact	Conductor(s)	PVC - Polyvinyl Chloride	.010 in (0.25 mm)	Black, Red
REX/Spare	Conductor(s)	PVC - Polyvinyl Chloride	.010 in (0.25 mm)	Black, Red, White, Green
Lock Power	Conductor(s)	PVC - Polyvinyl Chloride	.012 in (0.30 mm)	Black, Red, White, Green

Inner Shield

Element Description	Element	Shield Type	Material	Coverage	Drainwire Type
Card Reader	Conductor(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			

Waterblocking:	Waterblock Tape
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Inner Jacket

Element Description	Element	Separator	Material	Nom. Thickness	Nom. Diameter	Ripcord	Color
Card Reader	Conductor(s)	Waterblocking Tape	PVC - Polyvinyl Chloride	.025 in (0.64 mm)	.226 in (5.74 mm)	Yes	Orange
Door Contact	Conductor(s)	Waterblocking Tape	PVC - Polyvinyl Chloride	.025 in (0.64 mm)	.168 in (4.27 mm)	Yes	White
REX/Spare	Conductor(s)	Waterblocking Tape	PVC - Polyvinyl Chloride	.025 in (0.64 mm)	.187 in (4.75 mm)	Yes	Blue
Lock Power	Conductor(s)	Waterblocking Tape	PVC - Polyvinyl Chloride	.025 in (0.64 mm)	.233 in (5.92 mm)	Yes	Gray

Outer Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	.565 in (14.4 mm)

Overall Cable Diameter (Nominal):	.565 in (14.4 mm)
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Electrical Characteristics

Electricals

Element Description	Element	Max. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)
Card Reader	Conductor(s)	16.3 Ohm/1000ft (53.5 Ohm/km)	55 pF/ft (180 pF/m)	99 pF/ft (320 pF/m)
Door Contact	Conductor(s)	16.3 Ohm/1000ft (53.5 Ohm/km)	27 pF/ft (89 pF/m)	
REX/Spare	Conductor(s)	16.3 Ohm/1000ft (53.5 Ohm/km)	27 pF/ft (89 pF/m)	
Lock Power	Conductor(s)	6.5 Ohm/1000ft (21 Ohm/km)	34 pF/ft (110 pF/m)	

Voltage

UL Voltage Rating
300 V

Mechanical Characteristics

Temperature

UL Temperature	Operating
60°C	-20°C to +60°C

Bend Radius

Stationary Min.	Installation Min.
5.6 in (140 mm)	5.6 in (140 mm)

Standards and Compliance

Environmental Suitability:	Indoor/OutdoorIndoor Rated (Not Riser or Plenum)
Flammability / Reaction to Fire:	UL 1685
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	Article 800, CM
European Directive Compliance:	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: 0.27 Revision Date: 03-24-2024
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