



**Product:** [658BMJ](#)

Access Control, 20c (2x#22-3pr, #18-4c, #22-4c), Only Card Reader Pairs Shielded, Outer Jacket, CMP

## Product Description

Access Control Cable, Plenum-CMP, 3-22 AWG pairs, 3-22 AWG pairs, 4-22 AWG conductors, 4-18 AWG conductors, All conductors stranded bare copper with Flamarrest® insulation, both 3-22 AWG pair groups have overall Beldfoil® shield and Flamarrest® jacket, Overall Flamarrest® 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	Size	Stranding	Material
Card Reader	Pair(s)	3	22 AWG	7x30	BC - Bare Copper
Card Reader	Pair(s)	3	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	Nom. Insulation Diameter	Color Code
Card Reader	Pair(s)	PVC - Polyvinyl Chloride	0.01 in (0.25 mm)	0.047 in (1.2 mm)	Black & Red, White & Green, Brown & Orange
Card Reader	Pair(s)	PVC - Polyvinyl Chloride	0.009 in (0.23 mm)	0.047 in (1.2 mm)	Black & Red, White & Green, Brown & Orange
REX/Spare	Conductor(s)	PVC - Polyvinyl Chloride	0.009 in (0.23 mm)	0.047 in (1.2 mm)	Black, Red, White, Green
Lock Power	Conductor(s)	PVC - Polyvinyl Chloride	0.010 in (0.25 mm)	0.066 in (1.7 mm)	Black, Red, White, Green

#### 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
Card Reader	Pair(s)	Tape	Bi-Laminate (Alum+Poly)	100%	24 AWG (7x32) TC
REX/Spare	Conductor(s)	No Shield			
Lock Power	Conductor(s)	No Shield			

#### Outer Shield

<b>Material</b>
No Shield

#### Inner Jacket

Element Description	Element	Material	Nom. Thickness	Nom. Diameter	Ripcord	Color
Card Reader	Pair(s)	PVC - Polyvinyl Chloride	0.015 mm (0.00059 in)	0.216 in (5.49 mm)	Yes	Orange
Card Reader	Pair(s)	PVC - Polyvinyl Chloride	0.015 in (0.38 mm)	0.216 in (5.49 mm)	Yes	Gray
REX/Spare	Conductor(s)	PVC - Polyvinyl Chloride	0.015 in (0.38 mm)	0.143 in (3.63 mm)	Yes	White
Lock Power	Conductor(s)	PVC - Polyvinyl Chloride	0.015 in (0.38 mm)	0.189 in (4.80 mm)	Yes	Blue

#### Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.020 in (0.51 mm)	0.505 in	Yes

Overall Cable Diameter (Nominal):	0.505 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-Other (Conds + Shield)	Max. Current
Card Reader	Pair(s)	17.9 Ohm/1000ft	14.9 Ohm/1000ft (48.9 Ohm/km)	33 pF/ft (110 pF/m)	60 pF/ft (200 pF/m)	1.4 Amps per Conductor at 25°C
Card Reader	Pair(s)	17.9 Ohm/1000ft (58.7 Ohm/km)	14.9 Ohm/1000ft (48.9 Ohm/km)	33 pF/ft (110 pF/m)	60 pF/ft (200 pF/m)	1.4 Amps per Conductor at 25°C
REX/Spare	Conductor(s)	17.9 Ohm/1000ft (58.7 Ohm/km)		27 pF/ft (89 pF/m)		1.4 Amps per Conductor at 25°C
Lock Power	Conductor(s)	6.5 Ohm/1000ft (21 Ohm/km)		34 pF/ft (110 pF/m)		2.5 Amps per Conductor at 25°C

### Voltage

UL Voltage Rating
300 V

## Mechanical Characteristics

### Temperature

UL Temperature	Operating
75°C	0°C to +75°C

### Bend Radius

Stationary Min.	Installation Min.
5.05 in (128 mm)	5.05 in

Max. Pull Tension:	268 lbs (122 kg)
Bulk Cable Weight:	122 lbs/1000ft

## Standards and Compliance

Environmental Suitability:	Indoor - Plenum, Indoor
Flammability / Reaction to Fire:	NFPA 262 (UL910), FT6
NEC / UL Compliance:	Article 800, CMP
CEC / C(UL) Compliance:	CMP
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)

## History

Update and Revision:	Revision Number: 0.29 Revision Date: 04-08-2022
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