




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

Access Control, 16c (#22-3pr, #18-4c, #22-6c), Shielded, Outer Jacket, CMP

### Product Description

Access Control Cable, Plenum-CMP, 3-22 AWG pairs, 4-18 AWG conductors, 4-22 AWG conductors, 2-22 AWG conductors, All conductors stranded bare copper with Flamarrrest® insulation, Each cable has overall Beldfoil® shield and Flamarrrest® jacket, overall Flamarrrest® 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	22	7x30	BC - Bare Copper
Door Contact	Conductor(s)	2	22	7x30	BC - Bare Copper
REX/Spare	Conductor(s)	4	22	7x30	BC - Bare Copper
Lock Power	Conductor(s)	4	18	7x26	BC - Bare Copper

##### Insulation

Element Description	Element	Material	Thickness [in.]	Color Code
Card Reader	Pair(s)	PVC-LS - Polyvinyl Chloride (Low Smoke)	0.009	Black & Red, White & Green, Brown & Orange
Door Contact	Conductor(s)	PVC-LS - Polyvinyl Chloride (Low Smoke)	0.009	Black, Red
REX/Spare	Conductor(s)	PVC-LS - Polyvinyl Chloride (Low Smoke)	0.009	Black, Red, White, Green
Lock Power	Conductor(s)	PVC-LS - Polyvinyl Chloride (Low Smoke)	0.010	Black, Red, White, Green

##### Inner Shield Material

Element Description	Element	Shield Type	Material	Coverage	Drainwire Type
Card Reader	Pair(s)	Tape	Alum / Poly	100%	24 AWG (7x32) TC
Door Contact	Conductor(s)	Tape	Alum / Poly	100%	24 AWG (7x32) TC
REX/Spare	Conductor(s)	Tape	Alum / Poly	100%	24 AWG (7x32) TC
Lock Power	Conductor(s)	Tape	Alum / Poly	100%	24 AWG (7x32) TC

##### Inner Jacket Material

Element Description	Element	Material	Nom. Diameter	Ripcord	Color
Card Reader	Pair(s)	PVC-LS - Polyvinyl Chloride (Low Smoke)	0.216 in	Yes	Orange
Door Contact	Conductor(s)	PVC-LS - Polyvinyl Chloride (Low Smoke)	0.128 in	Yes	White
REX/Spare	Conductor(s)	PVC-LS - Polyvinyl Chloride (Low Smoke)	0.147 in	Yes	Blue
Lock Power	Conductor(s)	PVC-LS - Polyvinyl Chloride (Low Smoke)	0.193 in	Yes	Gray

##### Outer Jacket Material

Material	Thickness	Nom. Diameter	Ripcord
PVC-LS - Polyvinyl Chloride (Low Smoke)	0.020 in	0.463 in	Yes

Cable Diameter (Nominal):	0.463 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)	16.3 Ohm/1000ft	14.9 Ohm/1000ft	33 pF/ft	60 pF/ft	2 Amps per Conductor at 25°C
Door Contact	Conductor(s)	16.4 Ohm/1000ft	17.2 Ohm/1000ft	55 pF/ft	99 pF/ft	2.2 Amps per Conductor at 25°C
REX/Spare	Conductor(s)	16.4 Ohm/1000ft	17.2 Ohm/1000ft	33 pF/ft	59 pF/ft	2.2 Amps per Conductor at 25°C
Lock Power	Conductor(s)	6.5 Ohm/1000ft	16.4 Ohm/1000ft	42 pF/ft	76 pF/ft	4 Amps per Conductor at 25°C

#### Voltage

UL Voltage Rating
300 V (UL CMP)

## Mechanical Characteristics

#### Temperature

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

#### Bend Radius

Stationary Min.	Installation Min.
4.75 in	4.6 in

Max. Pull Tension:	200 lbs
Bulk Cable Weight:	108 lbs/1000ft

## Standards and Compliance

Environmental Suitability:	Indoor - Plenum, Indoor
Sustainability:	Product Lens™, Environmental Product Declaration (EPD) Available
Flammability / Fire Resistance:	NFPA 262, FT6, FT6, IEC 60332-1-2
NEC / UL Compliance:	Article 800, CMP
CEC / C(UL) Compliance:	CMP
CPR Euroclass:	Eca
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)
Non-Plenum Number:	558AFJ

## History

Update and Revision:	Revision Number: 0.351 Revision Date: 07-31-2020
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