Belden



Product: 658AMJ

Access Control, 16c (#22-3pr, #18-4c, #22-6c), Only Card Reader Pairs 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 Flamarrest® insulation, 3-22 AWG pairs have overall Beldfoil® shield and Flamarrest® jacket, overall Flamarrest® jacket

Technical Specifications

Product Overview

Suitable Applications:	Access Control, Security System, Power Limited Controls

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	Nom. Thickness	Nom. Insulation Diameter	Color Code
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
Door Contact	Conductor(s)	PVC - Polyvinyl Chloride	0.009 in (0.23 mm)	0.047 in (1.2 mm)	Black, Red
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)	

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. Thickness	Nom. Diameter	Ripcord	Color
Card Reader	Pair(s)	PVC - Polyvinyl Chloride	0.015 in (0.38 mm)	0.216 in (5.49 mm)	Yes	Orange
Door Contact	Conductor(s)	PVC - Polyvinyl Chloride	0.015 in (0.38 mm)	0.124 in (3.15 mm)	Yes	White
REX/Spare	Conductor(s)	PVC - Polyvinyl Chloride	0.015 in (0.38 mm)	0.189 in (4.80 mm)	Yes	Blue
Lock Power	Conductor(s)	PVC - Polyvinyl Chloride	0.015 in (0.38 mm)	0.189 in (4.80 mm)	Yes	Gray

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.020 in (0.51 mm)	0.455 in (11.6 mm)	Yes

Overall Cable Diameter (Nominal):	0.455 in (11.6 mm)

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	16.19 Ohm/1000ft (53.12 Ohm/km)	33 pF/ft (110 pF/m)	60 pF/ft (200 pF/m)	2.2 Amps per Conductor at 25ºC
Door Contact	Conductor(s)	16.4 Ohm/1000ft (53.8 Ohm/km)		27 pF/ft (89 pF/m)		2.2 Amps per Conductor at 25ºC
REX/Spare	Conductor(s)	16.4 Ohm/1000ft (53.8 Ohm/km)		27 pF/ft (89 pF/m)		2.2 Amps per Conductor at 25ºC
Lock Power	Conductor(s)	6.5 Ohm/1000ft (21 Ohm/km)		34 pF/ft (110 pF/m)		4 Amps per Conductor at 25ºC

Nom Outer Shield DCR@Cond DCR1-cnv:	18.54 Ohm/1000ft (60.83 Ohm/km)

Voltage

UL Voltage Rating
300 V (CMP)

Mechanical Characteristics

Temperature

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

Bend Radius

Stationary Min.	Installation Min.
4.55 in (116 mm)	4.55 in (116 mm)

Max. Pull Tension:	222 lbs (101 kg)
Bulk Cable Weight:	102 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor - Plenum, Indoor
Sustainability:	Product Lens™, Environmental Product Declaration (EPD) Available
Flammability / Reaction to Fire:	NFPA 262, UL 910 (Plenum), 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)
Non-Plenum Number:	558AMJ

History

Update and Revision:	Revision Number: 0.402 Revision Date: 09-07-2025

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC
658AMJ 0041000	Yellow	Reel	1,000 ft	612825178637

© 2025 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.