



Product: [638AMS](#) 

Access Control, 16c (#18-3pr, #16-4c, #18-6c), Only Card Reader Pairs Shielded, Banana Peel®, CMP

Product Description

Access Control Cable, Plenum-CMP, 3-18 AWG pairs, 4-16 AWG conductors, 4-18 AWG conductors, 2-18 AWG conductors, All conductors stranded bare copper with Flamarrest® insulation, Only Card Reader pairs have overall Beldfoil® shield and Flamarrest® jackets, Banana Peel® No overall jacket

Technical Specifications

Product Overview

Suitable Applications:	Access Control, Security System, Power Limited Controls
Patent:	This product has one or more applicable patents. More information on patents can be found at https://www.belden.com/resources/patents .

Construction Details

Conductor

Element Description	Element	Number of Element	AWG	Stranding	Material
Card Reader	Pair(s)	3	18	7x26	BC - Bare Copper
Door Contact	Conductor(s)	2	18	7x26	BC - Bare Copper
REX/Spare	Conductor(s)	4	18	7x26	BC - Bare Copper
Lock Power	Conductor(s)	4	16	19x29	BC - Bare Copper

Insulation

Element Description	Element	Material	Nom. Insulation Diameter	Color Code
Card Reader	Pair(s)	PVC - Polyvinyl Chloride		Black & Red, White & Green, Brown & Orange
Door Contact	Conductor(s)	PVC - Polyvinyl Chloride		Black, Red
REX/Spare	Conductor(s)	PVC - Polyvinyl Chloride		Black, Red, White, Green
Lock Power	Conductor(s)	PVC - Polyvinyl Chloride	0.075	Black, Red, White, Green

Inner Shield Material

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 Material

Element Description	Element	Material	Nom. Diameter	Ripcord	Color
Card Reader	Pair(s)	PVC - Polyvinyl Chloride	0.286 in	Yes	Orange
Door Contact	Conductor(s)	PVC - Polyvinyl Chloride	0.154 in	Yes	White
REX/Spare	Conductor(s)	PVC - Polyvinyl Chloride	0.180 in	Yes	Blue
Lock Power	Conductor(s)	PVC - Polyvinyl Chloride	0.206 in	Yes	Gray

Outer Jacket Material

Nom. Diameter
0.508 in

Table Notes:	Banana Peel®
Cable Diameter (Nominal):	0.508 in

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)	6.6 Ohm/1000ft	13.1 Ohm/1000ft	40 pF/ft	72 pF/ft	4 Amps per Conductor at 25°C
Door Contact	Conductor(s)	6.6 Ohm/1000ft				4 Amps per Conductor at 25°C
REX/Spare	Conductor(s)	6.6 Ohm/1000ft				4 Amps per Conductor at 25°C
Lock Power	Conductor(s)	4 Ohm/1000ft				5 Amps per Conductor at 25°C

Voltage

UL Voltage Rating
300 V (UL CMP)

Mechanical Characteristics

Temperature

Operating
0°C to +75°C

Bend Radius

Stationary Min.
5.8 in

Max. Pull Tension:	235 lbs
Bulk Cable Weight:	145 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor - Plenum, Indoor
Flammability / Fire Resistance:	NFPA 262, FT6
NEC / UL Compliance:	Article 800, CMP
CEC / C(UL) Compliance:	CMP
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:	538AMS

Product Notes

Notes:	Cold environment installation: When installing cables that have been stored at ambient temperatures of 32 degrees Fahrenheit (0 degrees Centigrade) or lower, Belden recommends conditioning of the cable for 12 hours at room temperature prior to individual cable leg separation.
--------	--

History

Update and Revision:	Revision Number: 0.63 Revision Date: 09-30-2020
----------------------	---

© 2020 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.