

Product: 538AMS

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

Product Description

Access Control Cable, Riser-CMR, 3-18 AWG pairs, 4-16 AWG conductors, 4-18 AWG conductors, 2-18 AWG conductors, All conductors stranded bare copper with polyolefin insulation, Only Card Reader pairs have overall Beldfoil® shield and PVC 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/patents.

Construction Details

Conductor

Element Description	Element	No. of Elements	Size	Stranding	Material
Card Reader	Pair(s)	3	18 AWG	7x26	BC - Bare Copper
Door Contact	Conductor(s)	2	18 AWG	7x26	BC - Bare Copper
REX/Spare	Conductor(s)	4	18 AWG	7x26	BC - Bare Copper
Lock Power	Conductor(s)	4	16 AWG	19x29	BC - Bare Copper

Insulation

Element Description	Element	Material	Nom. Insulation Diameter	Color Code
Card Reader	Pair(s)	PP - Polypropylene		Black & Red, White & Green, Brown & Orange
Door Contact	Conductor(s)	PP - Polypropylene		Black, Red
REX/Spare	Conductor(s)	PP - Polypropylene		Black, Red, White, Green
Lock Power	Conductor(s)	PP - Polypropylene	0.073 in (1.9 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. Diameter	Ripcord	Color
Card Reader	Pair(s)	PVC - Polyvinyl Chloride	0.272 in (6.91 mm)	Yes	Orange
Door Contact	Conductor(s)	PVC - Polyvinyl Chloride	0.158 in (4.01 mm)	Yes	White
REX/Spare	Conductor(s)	PVC - Polyvinyl Chloride	0.184 in (4.67 mm)	Yes	Blue
Lock Power	Conductor(s)	PVC - Polyvinyl Chloride	0.210 in (5.33 mm)	Yes	Gray

Outer Jacket

Nom. Diameter
0.500 in (12.7 mm)

Outer Jacket1 Table Notes:	Banana Peel®
Overall Cable Diameter (Nominal):	0.500 in (12.7 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)	6.6 Ohm/1000ft (22 Ohm/km)	13.1 Ohm/1000ft (43.0 Ohm/km)	29 pF/ft (95 pF/m)	52.25 pF/ft (171.4 pF/m)	4 Amps per Conductor at 25ºC
Door Contact	Conductor(s)	6.6 Ohm/1000ft (22 Ohm/km)		52.5 pF/ft (172 pF/m)		4 Amps per Conductor at 25ºC
REX/Spare	Conductor(s)	6.6 Ohm/1000ft (22 Ohm/km)		29 pF/ft (95 pF/m)		4 Amps per Conductor at 25ºC
Lock Power	Conductor(s)	4 Ohm/1000ft (13 Ohm/km)		30.5 pF/ft (100 pF/m)		5 Amps per Conductor at 25ºC

Voltage

UL Voltage Rating
300 V (UL CMR)

Mechanical Characteristics

Temperature

Operating
0°C to +75°C

Max. Pull Tension:	235 lbs (107 kg)
Bulk Cable Weight:	138 lbs/1000ft (205 kg/km)

Standards and Compliance

Environmental Suitability:	Indoor - Riser, Indoor
Flammability / Reaction to Fire:	UL1666 Riser
NEC / UL Compliance:	Article 800, CMR
CEC / C(UL) Compliance:	CMR
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)
Plenum Number:	638AMS

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: 0.118 Revision Date: 05-31-2024

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