

Part Number: 558AMS



Product Description

Technical Specifications

Physical Characteristics (Overall)

Conductor

Element	AWG	Stranding	Material	Nominal Diameter	No. of Conductors	No. of Pairs
Card Reader	22	7x30	BC - Bare Copper	0.03 in		3
Door Contact	22	7x30	BC - Bare Copper	0.03 in	2	
Rex/Spare	22	7x30	BC - Bare Copper	0.03 in	4	
Lock Power	18	7x26	BC - Bare Copper	0.047 in	4	

Conductor Count:	16
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Insulation

Material	Nominal Wall Thickness
PP - Polypropylene	0.007 in
PP - Polypropylene	0.008 in
PP - Polypropylene	0.008 in
PP - Polypropylene	0.008 in

Color Chart

Number	Color
Card Reader 1	Black and Red
Card Reader 2	Green and White
Card Reader 3	Orange and Brown
Door Contact 1	Black
Door Contact 2	Red
Rex/Spare 1	Black
Rex/Spare 2	Red
Rex/Spare 3	White
Rex/Spare 4	Green
Lock/Power 1	Black
Lock/Power 2	Red
Lock/Power 3	White
Lock/Power 4	Green

Inner Shield Material

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG
Tape	Aluminum Foil-Polyester Tape	Beldfoil®	100.0 %	TC - Tinned Copper	24
Unshielded					
Unshielded					

Inner Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.211 in	0.020 in
PVC - Polyvinyl Chloride	0.123 in	0.017 in
PVC - Polyvinyl Chloride	0.141 in	0.017 in

PVC - Polyvinyl Chloride	0.184 in	0.017 in
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Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.399 in

Electrical Characteristics

Conductor DCR

Element	Individual Pair Nominal Shield DCR	Nominal Conductor DCR
Card reader	13.9 Ohm/1000ft	16.3 Ohm/1000ft
Door Contact		16.4 Ohm/1000ft
Rex/Spare		16.4 Ohm/1000ft
Lock Power		6.5 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Shield
24 pF/ft	43.25 pF/ft
17 pF/ft	
17 pF/ft	
22 pF/ft	

Shielding:	Multiple or Specialty
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Current

Max. Recommended Current [A]
Per conductor @ 25° C: 2 A
Per conductor @ 25° C: 2.2 A
Per conductor @ 25° C: 2.2 A

Voltage

UL Voltage Rating
300 V RMS

Temperature Range

Operating Temp Range:	-20°C To +75°C
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Mechanical Characteristics

Bulk Cable Weight:	80 lbs/1000ft
Max Recommended Pulling Tension:	200 lbs
Min Bend Radius/Minor Axis:	4 in

Standards

NEC Articles:	800
NEC/(UL) Specification:	CMR
CEC/C(UL) Specification:	CMR

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	Yes
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2015-05-23
CA Prop 65 (CJ for Wire & Cable):	Yes

Suitability

Suitability - Indoor:	Yes
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Flammability, LSOH, Toxicity Testing

UL Flammability:	UL1666 Riser
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	658AMS

Part Number

Patent:	https://www.belden.com/resources/patents
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