



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, Each cable has overall Beldfoil® shield and Flamarrest® jacket, Banana Peel® No overall jacket

Technical Specifications

Product Overview

Suitable Applications:	Access Control	

Physical Characteristics (Overall)

Conductor						
Element	AWG	Stranding	Material	Nominal Diameter	No. of Conducto	ors No. of Pairs
Door Contact	18	7x26	BC - Bare Copper	0.047 in	2	3
Rex/Spare	18	7x26	BC - Bare Copper	0.047 in	4	
Lock Power	18	7x26	BC - Bare Copper	0.047 in	4	
	16	19x30	BC - Bare Copper	0.057 in	4	
Conductor Co	Conductor Count:				16	
Total Number of Pairs:					3	
Conductor Siz	e:					18 AWG

Insulation

Element	Material	Material Trade Name	Nominal Diameter
18	LS PVC - Low Smoke Polyvinyl Chloride	Flamarrest®	0.064 in
16	LS PVC - Low Smoke Polyvinyl Chloride	Flamarrest®	0.064 in
	LS PVC - Low Smoke Polyvinyl Chloride	Flamarrest®	0.075 in
	LS PVC - Low Smoke Polyvinyl Chloride	Flamarrest®	0.075 in

Color Chart

Number	Color
Card Reader 1	Black and Red
Card Reader 2	White and Green
Card Reader 3	Orange and Brown
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
	Red
	White
	Green

Color Chart 4

Number	Color
Card Reader	Orange

Door Contact	White
Rex/Spare	Blue
Lock/Power	Gray

Inner Jacket Material

Element	Material	Material Trade Name	Nominal Diameter
Door Contact	LS PVC - Low Smoke Polyvinyl Chloride	Flamarrest®	0.286 in
Rex/Spare	LS PVC - Low Smoke Polyvinyl Chloride	Flamarrest®	0.166 in
Lock/Power	LS PVC - Low Smoke Polyvinyl Chloride	Flamarrest®	0.195 in
Door Contact	LS PVC - Low Smoke Polyvinyl Chloride	Flamarrest®	0.222 in
Rex/Spare			
Lock/Power			

Outer Shield Material

Туре	Description	Layer	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Таре	Door Contact	Card Reader (3Pr #18)	Aluminum/Polyester	Beldfoil®	100 %	TC - Tinned Copper	24	(7x32)
Таре	Rex/Spare	Lock/Power (4C #16)	Aluminum/Polyester	Beldfoil®	100 %	TC - Tinned Copper	18	(7x32)
Таре	Lock/Power		Aluminum/Polyester	Beldfoil®	100 %	TC - Tinned Copper	16	(7x32)
Таре			Aluminum/Polyester	Beldfoil®	100 %	TC - Tinned Copper	24	(7x32)

Outer Jacket Material

Material	Material Trade Name	Nominal Diameter	Ripcord
LS PVC - Low Smoke Polyvinyl Chloride	Flamarrest®	0.286 in	Yes
LS PVC - Low Smoke Polyvinyl Chloride	Flamarrest®	0.166 in	Yes
Unjacketed		0.195 in	
		0.222 in	
		0.542 in	

Electrical Characteristics

Conductor DCR

Element	Individual Pair Nominal Shield DCR	Nominal Conductor DCR	Nominal Conductor DCR Conductor Resistance	Nominal Outer Shield DCR
Pair	6.9 Ohm/1000ft	6.6 Ohm/1000ft	6.6 Ohm/1000ft	15.9 Ohm/1000ft
Door Contact		6.6 Ohm/1000ft	6.6 Ohm/1000ft	14.4 Ohm/1000ft
Rex/Spare		6.6 Ohm/1000ft	6.6 Ohm/1000ft	14.4 Ohm/1000ft
Lock Power		4 Ohm/1000ft	4 Ohm/1000ft	

Capacitance

Element	Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to SI	
Pair	40 pF/ft	72 pF/ft	
Door Contact	70 pF/ft	126 pF/ft	
Rex/Spare	42 pF/ft	76 pF/ft	
Lock Power	45 pF/ft	81 pF/ft	
Shielding:		Foil(s)	

Current

Element	Max. Recommended Current [A]
Card Reader	4 amps @ 25C ambient temperature
Door Contact	4 Amps @ 25C ambient temperature
Rex/Spare	4 Amps @ 25C ambient temperature
Lock Power	5 Amps @ 25C ambient temperature

Voltage

UL Voltage Rating	
300 V RMS	

300 V RMS

Electrical Characteristics Notes:	Lock Power: Per Conductor @ 25°C: 5 A
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Mechanical Characteristics

Bulk Cable Weight:	175 lbs/1000ft
Max Recommended Pulling Tension:	428 lbs
Min Bend Radius/Minor Axis:	5 in

Standards

NEC Articles:	800
NEC/(UL) Specification:	СМР
CEC/C(UL) Specification:	СМР
CPR Euroclass:	Eca

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/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 RoHS Compliance Date (yyyy-mm-dd):	2005-04-01
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Indoor:	Yes		
Flammability, LS0H, Toxicity Testing			
UL Flammability:	NFPA 262		
UL voltage rating:	300 V RMS		
Plenum/Non-Plenum			
Plenum (Y/N):	Yes		
Part Number			
Non-Plenum Number:	538AFS		
Variants			
Item # Color Footnote 638AFS 0001000 Natural C			
Footnote:	C - CRATE REEL PUT-UP.		

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