

ENGLISH MEASUREMENT VERSION

638AFS Composite - Lock Power, Card Reader, Door Contact, REX Applications

Picture Not Available For more Information please call

1-800-Belden1



General 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

Jsage (Overall)	
Suitable Applications:	Access Control
Twisted Pair	
Physical Characteristics Conductor AWG: # Pairs AWG Stranding	Conductor Material Dia. (in.)
3 18 7x26	BC - Bare Copper 0.047
Insulation Insulation Material:	
Insulation Trade Name	
	S PVC - Low Smoke Polyvinyl Chloride 0.064
Twisted Pair Color Code Ch	
Number Color 1 Black and Red	Card Reader 1
2 White and Greer	
Individual Shield Outer Shield Outer Shield Material: Outer Shield Trade Name Beldfoil®	Type Outer Shield Material Coverage (%) Tape Aluminum Foil-Polyester Tape 100.000
Outer Shield Drain Wire AW AWG Stranding Drain W 24 (7x32) TC - Tir	
Outer Jacket Outer Jacket Material: Outer Jacket Trade Nam Flamarrest®	9 Outer Jacket Material LS PVC - Low Smoke Polyvinyl Chloride
Outer Jacket Diameter:	
Nom. Dia. (in.) 0.291	
Outer Jacket Ripcord:	Yes
Number Color Description 1 Orange Card R	otion
Applicable Specifications ar Applicable Standards & E	
NEC/(UL) Specification:	CMP
NEC Articles:	800
CEC/C(UL) Specification:	CMP
Flame Test UL Flame Test:	NFPA 262
Suitability Suitability - Indoor:	Yes

Detailed Specifications & Technical Data





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lectrical Cha									
Nom. Capacita		ctor to Shi	əld:						
Capacitano	ce (pF/ft)								
72.000									
Nom. Capacita		ictor to Cor	ductor:						
Capacitanc	ce (pF/ft)								
40.000									
Nom. Conduct	tor DC Resi	stance:							
DCR @ 20°	°C (Ohm/10	00 ft)							
6.600									
Ind Dair Na	minal Shia		tance @ 20 Deg. C:		6.900 Ohm/10	00.#			
			tance @ 20 Deg. C.		0.900 Onin/10	00 II		 	
Max. Operating	g voltage -	UL:							
300 V RMS									
Max. Recomm		rent:							
Description									
Card Reade	er 4 amps (g 25C ambie	ent temperature						
ulti Conduc	tor								
hysical Char		_							
Conductor	acteristic	5							
AWG:									
# Condu	ctors AWC	Stranding	Conductor Material	Dia. (in.)					
2	18	7x26	BC - Bare Copper	0.047					
4	18	7x26	BC - Bare Copper	0.047					
4	16	19x30	BC - Bare Copper	0.057					
		1							
Insulation Insulation N	Actorial								
		mo Insulati	ion Material	Di	a. (in.) AWG				
Flamarre			- Low Smoke Polyvin						
Flamarre			- Low Smoke Polyvin						
Insulation C									
1	Color De Black Do	or Contact 1	4						
2		or Contact 2							
3		x/Spare 1	-						
4		x/Spare 2	-						
5		x/Spare 3	-						
6	Green Re		-						
7		ck/Power 1	-						
8		ck/Power 2	-						
9	White Loo	ck/Power 3	-						
10	Green Loo		-						
			1						
Individual SI Outer Shield									
Outer Shield									
		Trade Name	e Type Outer Shield	Material	Coverage	(%) Description			
	eldfoil®		Tape Aluminum Fo		pe 100.000	Door Contact	.t		
18 Be	eldfoil®		Tape Aluminum Fo	oil-Polyester Ta	pe 100.000	Rex/Spare	-		
16 Be	eldfoil®		Tape Aluminum Fo			Lock/Power	-		
Outer Shield	d Drain Wir	e AWG:				1			
			Drain Wire Conducto	or Material					
Door Cor		-	TC - Tinned Copper						
12001 001			TC - Tinned Copper						
Rex/Spar			TC - Tinned Copper						
Rex/Spar Lock/Pov	vei 24	/							
Lock/Pow									
Lock/Pow	et i								
Lock/Pow Outer Jacke Outer Jacke	et At Material:	Name Or i							
Lock/Pow Outer Jacke Outer Jacke Outer Jacke	et Material: licket Trade		er Jacket Material	arinul Oblasid					
Lock/Pow Outer Jacke Outer Jacke Outer Ja Flamarre	et Material: acket Trade est®	LS P	er Jacket Material PVC - Low Smoke Poly	vinyl Chloride					
Lock/Pow Outer Jacke Outer Jacke Outer Jacke Flamarre Outer Jacke	et Material: acket Trade est® et Diameter	LS P		vinyl Chloride					
Lock/Pow Outer Jacke Outer Jacke Outer Ja Flamarre Outer Jacke Compon	et Material: acket Trade est® et Diameter ment # Nom	LS P : . Dia. (in.)		vinyl Chloride					
Lock/Pow Outer Jacke Outer Jacke Outer Ja Flamarre Outer Jacke Compon	et Material: acket Trade est® et Diameter aent # Nom ntact 0.168	LS P : . Dia. (in.)		winyl Chloride					

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Lock/Power 0.224	
Outer Jacket Ripcord:	Yes
Outer Jacket Color Code Chart:	
Number Color Description	
1 White Door Contact	
2 Blue Rex/Spare	
3 Gray Lock/Power	
Applicable Specifications and Agency Compliance	
Applicable Standards & Environmental Programs	
NEC/(UL) Specification:	CMP
NEC Articles:	800
CEC/C(UL) Specification:	CMP
Flame Test	
UL Flame Test:	NFPA 262
Suitability	
Suitability - Indoor:	Yes
Electrical Characteristics	
Nom. Capacitance Conductor to Shield:	
Description Freq. (MHz) Capacitance (pF/ft)	
Door Contact 1.000 126.000	
Rex/Spare 1.000 76.000	
Lock Power 1.000 81.000	
Nom. Capacitance Conductor to Conductor:	
Description Freq. (MHz) Capacitance (pF/ft)	
Door Contact 1.000 70.000 Rex/Spare 1.000 42.000	
Lock Power 1.000 45.000	
Nom. Conductor DC Resistance: Description DCR @ 20°C (Ohm/1000 ft)	
Door Contact 6.600	
Rex/Spare 6.600	
Lock Power 4.000	
Nominal Outer Shield DC Resistance:	
Description DCR @ 20°C (Ohm/1000 ft)	
Door Contact 15.900	
Rex/Spare 14.400	
Lock Power 14.400	
Max. Operating Voltage - UL:	
Voltage 300 V RMS	
Max. Recommended Current: Description Current	
Door Contact 4 Amps @ 25C ambient temperature	
Rex/Spare 4 Amps @ 25C ambient temperature	
Lock Power 5 Amps @ 25C ambient temperature	
·	
Physical Characteristics (Overall)	
Conductor Outer Jacket	
Outer Jacket Material:	
Outer Jacket Material Unjacketed	
Overall Cable	
Overall Nominal Diameter:	0.542 in.
Mechanical Characteristics (Overall)	
Bulk Cable Weight:	175 lbs/1000 ft.
Max. Recommended Pulling Tension:	428 lbs.
Min. Bend Radius/Minor Axis:	5 in.

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icable Standards & Environmental Programs		
EU Directive 2011/65/EU (ROHS II):	Yes	
EU Directive 2000/53/EC (ELV):	Yes	
EU Directive 2002/95/EC (RoHS):	Yes	
EU RoHS Compliance Date (mm/dd/yyyy):	04/01/2005	
EU Directive 2002/96/EC (WEEE):	Yes	
EU Directive 2003/11/EC (BFR):	Yes	
CA Prop 65 (CJ for Wire & Cable):	Yes	
MII Order #39 (China RoHS):	Yes	
oplicable Patents:		
Country		
www.belden.com/p		
num/Non-Plenum		
Plenum (Y/N):	Yes	
Non-Plenum Number:	538AFS	

Notes (Overall)

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.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc	
638AFS 0001000	1,000 FT	183.000 LB	NATURAL	С	4C16 + 4C18 + 3P18 + 2C18 SHLD	
Notes:						

C = CRATE REEL PUT-UP.

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