METRIC MEASUREMENT VERSION



558AFJ Composite - Lock Power, Card Reader, Door Contract, REX Applications



For more Information please call

1-800-Belden1



General Description:

Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C:

Access Control Cable, Riser-CMR, 3-22 AWG pairs, 4-18 AWG conductors, 4-22 AWG conductors, 2-22 AWG conductors, All conductors stranded bare copper with polyolefin insulation, Each cable has overall Beldfoil® shield and PVC jacket, Overall PVC jacket

e (Ovei	-			
Suitable A	applications:			Access Cor
isted Pair	r			
•	racteristics			
Conductor	•			
AWG:	AWC Stranding	Conductor Materi	al Dia (mm)	
# Pairs	22 7x30	BC - Bare Copper	0.762	
3	22 / 7,500	Do - Daie Coppei	0.702	
Insulation				
Insulation				
	ion Material Wall			
PP - Po	olypopylene 0.178	3		
Twisted P	air Color Code Ch	art:		
Numbe	er Color	Description		
1	Black and Red	Card Reader 1		
2	Green and White			
3	Orange and Bro	wn Card Reader 3		
Individual	Shield			
Outer Shie				
	eld Material:			
Outer S	Shield Trade Name	Type Outer Shie	ld Material	Coverage (%)
Beldfoil	®	Tape Aluminum	Foil-Polyester	Tape 100.000
Outer Shie	eld Drain Wire AW	'G:		
		Vire Conductor Mat	terial	
		ned Copper		
	· /			
Outer Jack				
	ket Material:			
	Jacket Material			
	Polyvinyl Chloride			
	ket Diameter:			
	Dia. (mm)			
5.359				
Outer Jac	ket Color Code Ch	nart:		
Numbe	er Color Descri	otion		
1	Orange Card R	eader		
Electrical Ch	aracteristics itance Conductor	to Chields		
		to Snieia:		
	nce (pF/m)			
141.903				
Nom. Capaci	itance Conductor	to Conductor:		
	nce (pF/m)			
Capacita				
Capacitar 78.744				
78.744	ctor DC Resistance	ce:		
78.744 Nom. Condu	ctor DC Resistand	ce:		

45.606 Ohm/km

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Max. Recommended Current:

Description	Current
Card Reader	2

Multi Conductor

Physical Characteristics

Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material	Dia. (mm)
2	22	7x30	BC - Bare Copper	0.762
4	22	7x30	BC - Bare Copper	0.762
4	18	7x26	BC - Bare Copper	1.194

Insulation

Insulation Material:

Insulation Material	Wall Thickness (mm)	AWG
PP - Polypropylene	0.203	18
PP - Polypropylene	0.203	22

Insulation Color Code Chart:

Number	Color	Description
1	Black	Door Contact 1
2	Red	Door Contact 2
3	Black	Rex/Spare 1
4	Red	Rex/Spare 2
5	White	Rex/Spare 3
6	Green	Rex/Spare 4
7	Black	Lock/Power 1
8	Red	Lock/Power 2
9	White	Lock/Power 3
10	Green	Lock/Power 4

Individual Shield

Outer Shield

Outer Shield Material:

AWG	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)	Description
22	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100.000	Door Contact
22	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100.000	Rex/Spare
18	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100.000	Lock/Power

Outer Shield Drain Wire AWG:

Component	AWG	Stranding	Drain Wire Conductor Material
Door Contact	24	(7x32)	TC - Tinned Copper
Rex/Spare	24	(7x32)	TC - Tinned Copper
Lock/Power	24	(7x32)	TC - Tinned Copper

Outer Jacket

Outer Jacket Material:

Outer Jacket Material PVC - Polyvinyl Chloride

Outer Jacket Diameter:

Component #	Nom. Dia. (mm)
Door Contact	3.353
Rex/Spare	3.835
Lock/Power	4.928

Outer Jacket Ripcord:

Yes

Outer Jacket Color Code Chart:

Number	Color	Description
1	White	Door Contact
2	Blue	Rex/Spare
3	Gray	Lock/Power

Electrical Characteristics

Nom. Capacitance Conductor to Shield:

Description	Freq. (MHz)	Capacitance (pF/m)
Door Contact	1.000	203.422
Rex/Spare	1.000	132.881
Lock Power	1.000	159.129

Nom. Capacitance Conductor to Conductor:

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Description	Freq. (MHz)	Capacitance (pF/m)
Door Contact	1.000	113.195
Rex/Spare	1.000	73.823
Lock Power	1.000	88.587

Nom. Conductor DC Resistance:

Description	DCR @ 20°C (Ohm/km)
Door Contact	53.808
Rex/Spare	53.808
Lock Power	21.327

Nom. Inner Shield DC Resistance:

Description	DCR @ 20°C (Ohm/km)
Door Contact	52.824
Rex/Spare	52.824
Loxk Power	23.623

Max. Operating Voltage - UL:

Voltage 300 V RMS

Max. Recommended Current:

Description	Current
Door Contact	2.2 Amps
Rex/Spare	2.2 Amps
Lock Power	4 Amps

Physical Characteristics (Overall)

Conductor

Outer Jacket

Outer Jacket Material:

Outer Jacket Material PVC - Polyvinyl Chloride

Overall Cable

Overall Nominal Diameter: 12.497 mm

	Dulle Cable Wainhte	100 001 1/4/1/19
	Operating Temperature Range:	-20°C To +75°C
Mec	chanical Characteristics (Overall)	

Max. Recommended Pulling Tension: 889.640 N Min. Bend Radius/Minor Axis: 127 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CEC/C(UL) Specification: EU Directive 2011/65/EU (ROHS II):		CMR
		CMG
		Yes
	EU CE Mark:	Yes
	EU Directive 2000/53/EC (ELV):	Yes
	EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):		06/20/2007
	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
Flai	me Test	
	UL Flame Test:	UL1666 Riser

FI

UL Flame Test:		UL1666 Riser	
CSA	Flame Test:	FT4	
Suitabili	ty		
Suita	ability - Indoor:	Yes	

Plenum/Non-Plenum

Plenum (Y/N): No

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658AFJ Plenum Number:

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
558AFJ 0041000	1,000 FT	120.000 LB	YELLOW	С	3P22+2C22+4C22+4C18 IFS CMR

Notes:

C = CRATE REEL PUT-UP.

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