

METRIC MEASUREMENT VERSION

558AFS Composite - Lock Power, Card Reader, Door Contact, REX Applications



For more Information please call

1-800-Belden1



General Description:

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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, Banana Peel® No overall jacket

Jsage (Overall)	
Suitable Applications:	Access Control
wisted Pair	
Physical Characteristics	
Conductor	
AWG:	
# PairsAWGStrandingConductor Material3227x30BC - Bare Copper	
Insulation	
Insulation Material:	
Insulation Material Wall Thickness (mm)	
PP - Polypropylene 0.178	
Inner Jacket	
Inner Jacket Color Code Chart:	
Number Color	
Card Reader 1 Black and Red	
Card Reader 2 White and Green	
Card Reader 3 Orange and Brown	
Individual Shield	
Outer Shield	
Outer Shield Material:	
Outer Shield Trade Name Type Outer Shield Material	Coverage (%)
Beldfoil® Tape Aluminum Foil-Polyester T	ape 100.000
Outer Shield Drain Wire AWG:	
AWG Stranding Drain Wire Conductor Material 24 (7x32) TC - Tinned Copper	
Outer Jacket Outer Jacket Material:	
Outer Jacket Material	
F-R PVC - Flame Retardant Polyvinyl Chloride	
Outer Jacket Diameter:	
Nom. Dia. (mm)	
5.359	
Outer Jacket Ripcord:	Yes
Outer Jacket Color Code Chart:	
Number Color	
Card Reader Orange	
Applicable Specifications and Agency Compliance Applicable Standards & Environmental Programs	
NEC/(UL) Specification:	CMR
NEC Articles:	800
CEC/C(UL) Specification:	CMG
Flame Test	
UL Flame Test:	UL1666 Vertical Shaft
Suitability	



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- and office	ty - Indoor						Yes				
lectrical C	-								 	 	
Nom. Capa				ld:							
Capacita	ance (pF/n										
147.645											
Nom. Capa			tor to Cond	ductor:							
Capacita 82.025	ance (pF/n	n)									
Nom. Cond	luctor DC	Resist	ance:								
_	20°C (Ohn	n/km)									
53.480											
Ind. Pair	Nominal S	Shield	DC Resist	ance @	20 Deg. C:		45.606 Ohm/km				
Max. Opera	-	ge - Ul	L:						 		
Descrip											
300 V RI	MS										
Max. Recor			nt:	_							
-	tion Curr										
Card Re	ader 2 am	ips @ 2	25C ambier	nt							
ulti Cond	uctor										
hysical Ch		stics									
Conducto	or										
AWG:											
					ctor Material						
2					re Copper						
	4	~ '	1,130								
4	1	18 7	7x26	BC - Ba							
4	1	18 7	7x26	BC - Ba	re Copper						
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Insulation Insulatio	n on Material	:			re Copper						
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Outer Jacket Outer Jacket Diameter:

Component # Nom. Dia. (mm)

Door Contact	3.353
Rex/Spare	3.835
Lock/Power	4.928



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558AFS Composite - Lock Power, Card Reader, Door Contact, REX Applications

Outer Jacket	Color Code C	hart:	
Number	Color		
Door Conta	ct White		
Rex/Spare	Blue		
Lock/Power	Gray		
Applicable Spec	ifications a	nd Agency Comp	
		Environmental Pro	
NEC/(UL) Spe			CMR
	cincation.		
NEC Articles:			800
CEC/C(UL) Sp	ecification:		CMG
Flame Test			
UL Flame Test	t:		UL1666 Vertical Shaft
	-		
Suitability			
Suitability - In	door:		Yes
Electrical Chara			
Nom. Capacitano			
		Capacitance (pF/m)	
Door Contact Rex/Spare		203.422 131.240	
		159.129	
Nom. Capacitan			
Description Door Contact		Capacitance (pF/m) 113.195	
		73.823	
		88.587	
Nom. Conductor Description			
Door Contact	-	(Onni/Kiii)	
	53.808		
	21.327		
Nom. Inner Shiel			
Description			
Door Contact		(0)	
	52.824		
Lock Power	23.623		
Max. Operating \	Voltage - UL:		
Description	ollugo oll		
300 V RMS			
Max. Recommen	ded Current:		
Description			
Door Contact	2.2 Amps @ 2	25C ambient	
Rex/Spare	2.2 Amps @ 2	25C ambient	
Lock Power	4 Amps @ 25	iC ambient	
hysical Chara	cteristics	(Overall)	
Conductor			
Outer Jacket Outer Jacket Ma	terial:		
Outer Jacket			
Unjacketed	material		
Overall Cable			
Overall Nomin	al Diameter:		11.379 mm
lochanical Ch	aractoricti		
lechanical Ch			
	nperature Rai	nge:	0°C To +75°C
Operating Ten			144.355 Kg/Km
Bulk Cable We	eight:		
Bulk Cable We	-	a Tension:	889.640 N
-	ended Pullin	-	889.640 N 111.760 mm



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	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
A	pplicable Patents:	
	Country	
	www.belden.com/p	
Ple	num/Non-Plenum	
	Plenum (Y/N):	No
	Plenum Number:	658AFS

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
558AFS 0001000	1,000 FT	106.000 LB	NONE	С	3P22+2C22+4C22+4C18 IFS CMR BP
558AFS 000500	500 FT	53.500 LB	NONE	С	3P22+2C22+4C22+4C18 IFS CMR BP

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 2 Revision Date: 01-20-2015

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