

METRIC MEASUREMENT VERSION

### 658GFS 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, 6-22 AWG pairs, 4-18 AWG conductors, 2-22 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
wisted Pair	
Physical Characteristics	
Conductor	
AWG:	
# Pairs AWG Stranding Conductor Material Dia. (mm)	
6 22 7x30 BC - Bare Copper 0.762	
Insulation	
Insulation Material:	
Insulation Trade Name Insulation Material	Dia. (mm)
Flamarrest® LS PVC - Low Smoke Polyvinyl Chlo	<u>oride</u> 1.194
Twisted Pair Color Code Chart:	
Number Color Description	
1 Black and Red Card Reader 1 Pair 1	
2 White and Green Card Reader 1 Pair 2	
3   Orange and Brown   Card Reader 1 Pair 3     4   Black and Red   Card Reader 2 Pair 1	
5 White and Green Card Reader 2 Pair 1	
6 Orange and Brown Card Reader 2 Pair 2	
Beldfoil® Tape Aluminum Foil-Polyester T.   Outer Shield Drain Wire AWG: AWG Stranding Drain Wire Conductor Material 24   24 (7x32) TC - Tinned Copper   Outer Jacket Outer Jacket Material: 0uter Jacket Trade Name   Outer Jacket Trade Name LS PVC - Low Smoke Polyvinyl C   Outer Jacket Diameter: 0uter Jacket Diameter	
Nom. Dia. (mm) 5.537	Ver
Outer Jacket Ripcord: Outer Jacket Color Code Chart:	Yes
Number   Color   Description     1   Yellow   Card Reader 1     2   Orange   Card Reader 2	
Applicable Specifications and Agency Compliance Applicable Standards & Environmental Programs	
NEC/(UL) Specification:	CMR
CEC/C(UL) Specification:	CMG
Flame Test	
UL Flame Test:	UL1666 Vertical Shaft

# **Detailed Specifications & Technical Data**



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Suitabil	-						Vee						
	oility - Indoo						Yes						
	pacitance ( citance (pF	Condu	S ctor to Shie	ld:									
	citance (pF		ctor to Con	ductor:									
Nom. Co	nductor DO	C Resis	stance:										
53.48													
				ance @	20 Deg. C:		45.606 Ohr	m/km					
Max. Ope Voltag 300 V	-	tage - (	Other:										
Descr	ription Cu Reader 2		ent:										
	· ·												
Multi Con													
Physical ( Conduc AWG:	ctor						_						
	onductors		Stranding		ctor Material								
2		22	7x30		are Copper	0.762							
4		18	7x26	BC - B	are Copper	1.168							
Insulati													
	tion Materi						<b>D</b> : ( ) ( )						
		ide Nar	me Insulatio			d Obleside	Dia. (mm) A						
	marrest®				Smoke Polyvin								
	marrest®			- Low S	moke Polyvin	yi Chioride	1.676 18	5					
	tion Color												
	mber Colo		•										
1	Black		or Contact 1 or Contact 2										
2	Black		k/Power 1										
4	Red		k/Power 2										
5	White		k/Power 3										
6			k/Power 4										
 بامان بالم بيا	ual Shield			1									
Outer S													
			Frade Name	Туре	Outer Shield	Material	Covera	age (%)	Description				
22	Beldfoil	®		Таре	Aluminum Fo	il-Polyester	Tape 100.00	0	Door Contact	1			
18	Beldfoil	B		Таре	Aluminum Fo	il-Polyester	Tape 100.00	0	Lock/Power	1			
Outer	Shield Dra	in Wire	AWG:										
Co	mponent	AWG	Stranding I	Drain W	/ire Conducto	or Material							
Doo	or Contact	24	(7x32)	TC - Tin	ned Copper								
Loc	ck/Power	24	(7x32)	TC - Tin	ned Copper								
Outer J													
Out			Name Outer										
	marrest®			VC - Lo	w Smoke Poly	vinyl Chlori	e						
	Jacket Dia												
	mponent #		Dia. (mm)										
	or Contact												
Loc	ck/Power	4.902											
Outer	Jacket Rip	cord:					Yes						
Outer	Jacket Col	or Cod	le Chart:										
<b>Nu</b> 1	mber Colo White		cription Contact										
		1											

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## 658GFS Composite - Lock Power, Card Reader, Door Contact, REX Applications

2 G	Gray Lock/Power	
	cifications and Agency Complia andards & Environmental Progr	
		CMR
CEC/C(UL) Sp	pecification:	CMG
Flame Test		
UL Flame Tes	t:	UL1666 Vertical Shaft
Suitability		
Suitability - In	idoor:	Yes
Electrical Chara		
	ce Conductor to Shield: Freq. (MHz) Capacitance (pF/m)	
Door Contact		
Lock/Power	1.000 236.232	
-	ce Conductor to Conductor:	
Description Door Contact	Freq. (MHz)   Capacitance (pF/m)     1.000   180.455	
Lock Power	1.000 131.240	
Nom. Conductor	r DC Resistance:	
Description	DCR @ 20°C (Ohm/km)	
Door Contact		
	21.327	
	Id DC Resistance: DCR @ 20°C (Ohm/km)	
Door Contact	- · ·	
Lock/Power	52.168	
Max. Operating	Voltage - Other:	
Voltage		
300 V RMS	adad Cumantu	
Max. Recommer Description		
Door Contact	2.2 Amps	
Lock/Power	4.0 Amps	
Physical Chara	acteristics (Overall)	
Conductor		
Outer Jacket Outer Jacket Ma	. to vial	
Outer Jacket Ma		
Unjacketed		
Overall Cable		
Overall Nomin	nal Diameter:	11.582 mm
Machanical Ch	are stariation (Overall)	
	aracteristics (Overall)	0°C To +75°C
Bulk Cable W	-	141.379 Kg/Km
	nended Pulling Tension:	1112.050 N
Min. Bend Ra	dius/Minor Axis:	120.650 mm
Applicable Spe	ecifications and Agency Cor	liance (Overall)
	dards & Environmental Program	
NEC/(UL) Spe	cification:	СМР
CEC/C(UL) Sp	pecification:	CMP
EU Directive 2	2011/65/EU (ROHS II):	Yes
EU Directive 2	2000/53/EC (ELV):	Yes
EU Directive 2	2002/95/EC (RoHS):	Yes
EU RoHS Con	npliance Date (mm/dd/yyyy):	04/02/2007
EU Directive 2	2002/96/EC (WEEE):	Yes
EU Directive 2	2003/11/EC (BFR):	Yes



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CA Prop 65 (CJ for Wire & Cable):	Yes						
MII Order #39 (China RoHS):	Yes						
Flame Test							
UL Flame Test: NFPA 262 Plenum Flame Test (UL910)(FT6)							
CSA Flame Test:	FT6						
Suitability							
Suitability - Indoor:	Yes						
Plenum/Non-Plenum							
Plenum (Y/N):	Yes						
Non-Plenum Number:	558GFS						

#### 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. Banana Peel® US PATENT 7049523.

#### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
658GFS 0001000	1,000 FT	112.000 LB	NONE	С	4C18SH + 2 X 3PR22SH + 1P22SH
658GFS 000500	500 FT	56.500 LB	NONE	С	4C18SH + 2 X 3PR22SH + 1P22SH

Notes:

C = CRATE REEL PUT-UP.

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