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:

UL Flame Test:

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

age (Overa	ıll)							
Suitable Ap	plications:			Access (Control			
isted Pair								
ysical Char	actoristics							
ysical Char Conductor	acteristics							
AWG:								
# Pairs	AWG Stranding C	onductor Material Dia.	(mm)					
6 2	22 7x30 B	C - Bare Copper 0.76	2					
nsulation		'						
Insulation N	laterial:							
Insulatio	n Trade Name Ins	ulation Material		Dia. (mm)	1)			
Flamarre	st® LS	PVC - Low Smoke Polyv	inyl Chloride	1.194				
Twisted Pai	r Color Code Char	t:			_			
Number		Description						
1	Black and Red	Card Reader 1 Pair 1						
2	White and Green	Card Reader 1 Pair 2						
3	Orange and Brown							
4	Black and Red	Card Reader 2 Pair 1						
5	White and Green	Card Reader 2 Pair 2						
6	Orange and Brown	Card Reader 2 Pair 3						
dividual S	hield							
Outer Shield	I							
Outer Shield								
		Type Outer Shield Mat		Coverage	e (%)			
Beldfoil®		Tape Aluminum Foil-Po	yester Tape	100.000				
	d Drain Wire AWG:							
	-	e Conductor Material						
24 (7)	x32) TC - Tinne	ed Copper						
uter Jacke	t							
Outer Jacke	et Material:							
Outer Ja		Outer Jacket Material						
Flamarre	st® I	LS PVC - Low Smoke Po	lyvinyl Chlori	de				
Outer Jacke	et Diameter:			_				
Nom. Dia	a. (mm)							
5.537								
Outer Jacke	at Bincord:			Yes				
	et Ripcord: et Color Code Char	·••		169				
Number								
1	Yellow Card Rea							
2	Orange Card Rea							
	-							
		Agency Complianc						
		rironmental Program	ns					
NEC/(UL) S	pecification:			CMR				
CEC/C(UL)	Specification:			CMG				
Flame Test								
idillo 163t								

UL1666 Vertical Shaft

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METRIC MEASUREMENT VERSION

White Door Contact



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

Suitability		
Suitability - Indoor:	Yes	es
Electrical Characteristics Nom. Capacitance Conductor to Shield:		
Capacitance (pF/m) 196.860		
Nom. Capacitance Conductor to Conduct	tor:	
Capacitance (pF/m) 108.273		
Nom. Conductor DC Resistance:		
DCR @ 20°C (Ohm/km) 53.480		
Ind. Pair Nominal Shield DC Resistance	e @ 20 Deg. C: 45.6	5.606 Ohm/km
Max. Operating Voltage - Other:		
Voltage		
300 V RMS		
Max. Recommended Current: Description Current		
Card Reader 2		
Multi Conductor		
Physical Characteristics		
Conductor AWG:		
# Conductors AWG Stranding Cor	nductor Material Dia. (mm)	
_	- Bare Copper 0.762	
4 18 7x26 BC	- Bare Copper 1.168	
Insulation		
Insulation Material:		
Insulation Trade Name Insulation M	laterial Dia. (n	(mm) AWG
	w Smoke Polyvinyl Chloride 1.194	
	w Smoke Polyvinyl Chloride 1.676	6 18
Insulation Color Code Chart:		
Number Color Description 1 Black Door Contact 1		
2 Red Door Contact 1		
3 Black Lock/Power 1		
4 Red Lock/Power 2		
5 White Lock/Power 3		
6 Green Lock/Power 4		
Individual Shield		
Outer Shield Outer Shield Material:		
AWG Outer Shield Trade Name Ty	pe Outer Shield Material	Coverage (%) Description
	pe Aluminum Foil-Polyester Tape	e 100.000 Door Contact
18 Beldfoil® Tap	pe Aluminum Foil-Polyester Tape	e 100.000 Lock/Power
Outer Shield Drain Wire AWG:		
Component AWG Stranding Drain		
	Tinned Copper	
Lock/Power 24 (7x32) TC -	Tinned Copper	
Outer Jacket		
Outer Jacket Material: Outer Jacket Trade Name Outer Jac	aket Material	
	Low Smoke Polyvinyl Chloride	
Outer Jacket Diameter:	Zon omono i ory mry omono	
Component # Nom. Dia. (mm)		
Door Contact 3.607		
Lock/Power 4.902		
Outer Jacket Pincord	Yes	
Outer Jacket Ripcord: Outer Jacket Color Code Chart:	Yes	59
Number Color Description		

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METRIC MEASUREMENT VERSION



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

Gray Lock/Power

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
Suitability	

Yes

Suitability - Indoor: **Electrical Characteristics**

Nom. Capacitance Conductor to Shield:

Description	Freq. (MHz)	Capacitance (pF/m)
Door Contact	1.000	324.819
Lock/Power	1.000	236.232

Nom. Capacitance Conductor to Conductor:

Description	Freq. (MHz)	Capacitance (pF/m)
Door Contact	1.000	180.455
Lock Power	1.000	131.240

Nom. Conductor DC Resistance:

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

Nom. Inner Shield DC Resistance:

Description	DCR @ 20°C (Ohm/km)
Door Contact	54.793
Lock/Power	52.168

Max. Operating Voltage - Other:

Voltage 300 V RMS

Max. Recommended Current:

Description	Current
Door Contact	2.2 Amps
Lock/Power	4.0 Amps

Physical Characteristics (Overall)

Conductor

Outer Jacket

Outer Jacket Material:

Outer Jacket Material Unjacketed

Overall Cable

Overall Nominal Diameter: 11.582 mm

Mechanical Characteristics (Overall)

Operating Temperature Range:	0°C To +75°C
Bulk Cable Weight:	141.379 Kg/Km
Max. Recommended Pulling Tension:	1112.050 N
Min. Bend Radius/Minor Axis:	120.650 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMP
CEC/C(UL) Specification:	CMP
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):	04/02/2007
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 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	114.000 LB	NONE	С	6P22+2C22+4C18 IFS CMP BPEEL
658GFS 000500	500 FT	57.500 LB	NONE	С	6P22+2C22+4C18 IFS CMP BPEEL

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 3 Revision Date: 01-20-2015

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