

ENGLISH 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

age (Overall)				
Suitable Applications:		Access Cont	trol	
isted Pair				
hysical Characteristics				
Conductor				
AWG:	Or a desider Made stat. Dia (in)			
6 22 7x30	Conductor MaterialDia. (in.)BC - Bare Copper0.030			
Insulation Insulation Material:				
Insulation Trade Name	nsulation Material	Dia. (in.)		
	S PVC - Low Smoke Polyvinyl Chloride			
Twisted Pair Color Code Cl	art:			
Number Color	Description			
1 Black and Red	Card Reader 1 Pair 1			
2 White and Gree				
3 Orange and Bro				
4 Black and Red 5 White and Gree	Card Reader 2 Pair 1			
	n Card Reader 2 Pair 2 wn Card Reader 2 Pair 3			
Individual Shield				
Outer Shield Outer Shield Material:				
	e Type Outer Shield Material	Coverage (%)		
Beldfoil®	Tape Aluminum Foil-Polyester Tape			
Outer Shield Drain Wire AV	/G:			
AWG Stranding Drain	Vire Conductor Material			
24 (7x32) TC - Ti	nned Copper			
Outer Jacket				
Outer Jacket Material:				
Outer Jacket Trade Nam				
Flamarrest®	LS PVC - Low Smoke Polyvinyl Chlo	ride		
Outer Jacket Diameter:				
Nom. Dia. (in.)				
0.218				
Outer Jacket Ripcord:		Yes		
Outer Jacket Color Code C	nart:			
Number Color Descri				
	eader 1			
2 Orange Card F	eader 2			
pplicable Specifications a	nd Agency Compliance			
Applicable Standards & E	nvironmental Programs			
NEC/(UL) Specification:		CMR		
CEC/C(UL) Specification:		CMG		
Flame Test				
III Flame Test		LII 1666 Ver	tical Shaft	

UL Flame Test:

UL1666 Vertical Shaft

Detailed Specifications & Technical Data



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Suitability	
Suitability - Indoor: Y	/es
Electrical Characteristics	
Nom. Capacitance Conductor to Shield:	
Capacitance (pF/ft)	
60.000	
Nom. Capacitance Conductor to Conductor:	
Capacitance (pF/ft)	
33.000	
Nom. Conductor DC Resistance:	
DCR @ 20°C (Ohm/1000 ft)	
16.300	
Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: 13	3.900 Ohm/1000 ft
Max. Operating Voltage - Other:	
Voltage	
300 V RMS	
Max. Recommended Current:	
Description Current	
Card Reader 2	
Iulti Conductor	
Physical Characteristics	
Conductor AWG:	
# Conductors AWG Stranding Conductor Material Dia. (in.)	
2 22 7x30 BC - Bare Copper 0.030	
4 18 7x26 BC - Bare Copper 0.046	
Insulation	
Insulation Material:	
Insulation Trade Name Insulation Material Dia.	. (in.) AWG
Flamarrest® LS PVC - Low Smoke Polyvinyl Chloride 0.04	47 22
Flamarrest® LS PVC - Low Smoke Polyvinyl Chloride 0.06	66 18
Insulation Color Code Chart:	
Number Color Description	
1 Black Door Contact 1	
2 Red Door Contact 2 3 Black Lock/Power 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 Type Outer Shield Material	Coverage (%) Description
22 Beldfoil® Tape Aluminum Foil-Polyester Tap	pe 100.000 Door Contact
18 Beldfoil® Tape Aluminum Foil-Polyester Tap	e 100.000 Lock/Power
Outer Shield Drain Wire AWG:	
Component AWG Stranding Drain Wire Conductor Material	
Door Contact 24 (7x32) TC - Tinned Copper	
Lock/Power 24 (7x32) TC - Tinned Copper	
Outer Jacket	
Outer Jacket Material:	
Outer Jacket Trade Name Outer Jacket Material	
Flamarrest® LS PVC - Low Smoke Polyvinyl Chloride	
Outer Jacket Diameter:	
Component # Nom. Dia. (in.)	
Door Contact 0.142	
Lock/Power 0.193	
Outer Jacket Ripcord: Y	/es
Outer Jacket Color Code Chart:	
Number Color Description	
1 White Door Contact	

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2 Gray Lock/Power						
Applicable Specifications and Agend Applicable Standards & Environme						
NEC/(UL) Specification:	CMR					
CEC/C(UL) Specification:	СМС					
Flame Test						
UL Flame Test:	UL1666 Vertical Shaft					
Suitability						
Suitability - Indoor:	Yes					
Electrical Characteristics						
Nom. Capacitance Conductor to Shield: Description Freq. (MHz) Capacitan						
Door Contact 1.000 99.000						
Lock/Power 1.000 72.000						
Nom. Capacitance Conductor to Conduc	itor:					
Description Freq. (MHz) Capacitan	e (pF/ft)					
Door Contact 1.000 55.000						
Lock Power 1.000 40.000						
Nom. Conductor DC Resistance: Description DCR @ 20°C (Ohm/100	1 64					
Door Contact 16.400						
Lock/Power 6.500	—					
Nom. Inner Shield DC Resistance:						
Description DCR @ 20°C (Ohm/100) ft)					
Door Contact 16.700						
Lock/Power 15.900						
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	N .					
Conductor						
Outer Jacket						
Outer Jacket Material:						
Outer Jacket Material Unjacketed						
Oljackeled						
Overall Cable						
Overall Nominal Diameter:	0.456 in.					
Mechanical Characteristics (Ove	rall)					
Operating Temperature Range:	0°C To +75°C					
Bulk Cable Weight:	95 lbs/1000 ft.					
Max. Recommended Pulling Tension:	250 lbs.					
Min. Bend Radius/Minor Axis:	4.750 in.					
Applicable Specifications and Ag						
Applicable Standards & Environmen NEC/(UL) Specification:	tal Programs 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/y						
EU Directive 2002/96/EC (WEEE):	yy). 04/02/2007 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	112.000 LB	NONE	С	BONDED FILLER COMPOSITE
658GFS 000500	500 FT	56.500 LB	NONE	С	BONDED FILLER COMPOSITE

Notes:

C = CRATE REEL PUT-UP.

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