

658GFS Composite - Lock Power, Card Reader, Door Contact, REX Applications
 For more Information
 please call

1-800-Belden1



Picture
Not Available

Description:

6 Pairs - 22 AWG stranded (7x30) BC conductors, LS PVC insul., Beldfoil® shield, drain wire, LS PVC jacket w/ripcord; 6 conductors - 22 & 18 AWG stranded BC conductors, LS PVC insul., Beldfoil® shield, drain wire, LS PVC jacket w/ripcord.

Usage (Overall)

Suitable Applications:	Access Control
------------------------	----------------

Twisted Pair**Physical Characteristics****Conductor****AWG:**

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
6	22	7x30	BC - Bare Copper	0.030

Insulation**Insulation Material:**

Insulation Trade Name	Insulation Material	Dia. (in.)
Flamarrest®	LS PVC - Low Smoke Polyvinyl Chloride	0.047

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 2
6	Orange and Brown	Card Reader 2 Pair 3

Outer Shield**Outer Shield Material:**

Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
Beldfoil®	Tape	Aluminum Foil-Polyester Tape	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 Trade Name	Outer Jacket Material
Flamarrest®	LS PVC - Low Smoke Polyvinyl Chloride

Outer Jacket Diameter:

Nom. Dia. (in.)
0.218

Outer Jacket Ripcord:	Yes
-----------------------	-----

Outer Jacket Color Code Chart:

Number	Color	Description
1	Yellow	Card Reader 1

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

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

Suitability

Suitability - Indoor: Yes

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: 13.900 Ohm/1000 ft

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	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	0.047	22
Flamarrest®	LS PVC - Low Smoke Polyvinyl Chloride	0.066	18

Insulation Color Code Chart:

Number	Color	Description
1	Black	Door Contact 1
2	Red	Door Contact 2
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 Tape	100.000	Door Contact

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

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
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: Yes

Outer Jacket Color Code Chart:

Number	Color	Description
1	White	Door Contact
2	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: UL 1666 Vertical Shaft

Suitability

Suitability - Indoor: Yes

Electrical Characteristics**Nom. Capacitance Conductor to Shield:**

Description	Freq. (MHz)	Capacitance (pF/ft)
Door Contact	1.000	99.000
Lock/Power	1.000	72.000

Nom. Capacitance Conductor to Conductor:

Description	Freq. (MHz)	Capacitance (pF/ft)
Door Contact	1.000	55.000
Lock Power	1.000	40.000

Nom. Conductor DC Resistance:

Description	DCR @ 20°C (Ohm/1000 ft)
Door Contact	16.400
Lock/Power	6.500

Nom. Inner Shield DC Resistance:

Description	DCR @ 20°C (Ohm/1000 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

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

Physical Characteristics (Overall)

Conductor

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
Unjacketed

Overall Cable

Overall Nominal Diameter: 0.456 in.

Mechanical Characteristics (Overall)

Operating Temperature Range: 0°C To +75°C

Bulk Cable Weight: 95 lbs/1000 ft.

Max. Recommended Pulling Tension: 250 lbs.

Min. Bend Radius (Install)/Minor Axis: 4.750 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMP

CEC/C(UL) Specification: CMP

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

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

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.

Related Documents:

No related documents are available for this product

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
658GFS 0001000	1,000 FT	112.000 LB	NONE	C	BONDED FILLER COMPOSITE
658GFS 000500	500 FT	56.500 LB	NONE	C	BONDED FILLER COMPOSITE

Notes:

C = CRATE REEL PUT-UP.

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

Revision Number: 2 Revision Date: 07-18-2008

© 2012 Belden, Inc.
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.