

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

Usage (Overall)

Suitable Applications: Access Control

Twisted 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 Chloride	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 2
6	Orange and Brown	Card Reader 2 Pair 3

Individual Shield**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. (mm)
5.537

Outer Jacket Ripcord: Yes

Outer Jacket Color Code Chart:

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

METRIC MEASUREMENT VERSION

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Suitability

Suitability - Indoor: Yes

Electrical Characteristics

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)

196.860

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)

108.273

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

53.480

Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: 45.606 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	Conductor Material	Dia. (mm)
2	22	7x30	BC - Bare Copper	0.762
4	18	7x26	BC - Bare Copper	1.168

Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Dia. (mm)	AWG
Flamarrest®	LS PVC - Low Smoke Polyvinyl Chloride	1.194	22
Flamarrest®	LS PVC - Low Smoke Polyvinyl Chloride	1.676	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
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. (mm)
Door Contact	3.607
Lock/Power	4.902

Outer Jacket Ripcord: Yes

Outer Jacket Color Code Chart:

Number	Color	Description
1	White	Door Contact

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2	Gray	Lock/Power
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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
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Suitability

Suitability - Indoor:	Yes
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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
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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

METRIC MEASUREMENT VERSION

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

CA Prop 65 (CJ for Wire & Cable):	Yes
MIL 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
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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	C	6P22+2C22+4C18 IFS CMP BPEEL
658GFS 000500	500 FT	57.500 LB	NONE	C	6P22+2C22+4C18 IFS CMP BPEEL

Notes:

C = CRATE REEL PUT-UP.

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