

658GMS Composite - Composite - Access Control Composite

**Picture
Not Available**

For more Information
please call

1-800-Belden1



General Description:

Access Control Cable, Plenum-CMP, 4-18 AWG conductors, 6-22 AWG conductors with Beldfoil® shield, 4-22 AWG conductors, 4-22 AWG conductors, All conductors stranded bare copper with Flammarrest® insulation, Each cable has Flammarrest® jacket, Banana Peel® No overall jacket

Usage (Overall)

Suitable Applications: Access Control, Access Control Doors, Lock Power, Card Reader, Door Contract, REX/Spare

Twisted Pair

Physical Characteristics
Individual Shield

Multi Conductor

Physical Characteristics
Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material	Dia. (in.)
4	22	7x30	BC - Bare Copper	0.029
4	22	7x30	BC - Bare Copper	0.029
4	18	7x26	BC - Bare Copper	0.047
6	22	7x30	BC - Bare Copper	0.029

Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Dia. (in.)	AWG
Flammarrest®	LS PVC - Low Smoke Polyvinyl Chloride	0.047	22
Flammarrest®	LS PVC - Low Smoke Polyvinyl Chloride	0.064	18

Insulation Color Code Chart:

Number	Color	Description
1	Black	Door Contact 1
2	Red	Door Contact 2
3	White	Door Contact 3
4	Green	Door Contact 4
5	Black	Rex/Spare 1
6	Red	Rex/Spare 2
7	White	Rex/Spare 3
8	Green	Rex/Spare 4
9	Black	Lock/Power 1
10	Red	Lock/Power 2
11	White	Lock/Power 3
12	Green	Lock/Power 4
13	Black	Card Reader 1
14	Red	Card Reader 2
15	White	Card Reader 3
16	Green	Card Reader 4
17	Brown	Card Reader 5
18	Blue	Card Reader 6

Individual Shield

Outer Shield

Outer Shield Material:

Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)	Description
Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100.000	Card Reader

Outer Shield Drain Wire AWG:

Component	AWG	Stranding	Drain Wire Conductor Material
Card Reader	24	(7x32)	TC - Tinned Copper

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Outer Jacket

Outer Jacket Material:

Outer Jacket Trade Name	Outer Jacket Material	Nom. Wall Thickness (in.)
Flamarrest®	LS PVC - Low Smoke Polyvinyl Chloride	0.017

Outer Jacket Diameter:

Component #	Nom. Dia. (in.)
Door Contact	0.147
Rex/Spare	0.147
Lock/Power	0.190
Card Reader	0.179

Outer Jacket Ripcord: Yes

Outer Jacket Color Code Chart:

Color	Description
White	Door Contact
Blue	Rex/Spare
Gray	Lock/Power
Orange	Card Reader

Mechanical Characteristics

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

UL Temperature Rating: 75C

Applicable Specifications and Agency Compliance Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMP

NEC Articles: 800

CEC/C(UL) Specification: CMP

Flame Test

UL Flame Test: NFPA 262

C(UL) Flame Test: FT6

Suitability

Suitability - Indoor: Yes

Electrical Characteristics

Nom. Capacitance Conductor to Shield:

Description	Capacitance (pF/ft)
Card Reader	60.000

Nom. Capacitance Conductor to Conductor:

Description	Freq. (MHz)	Capacitance (pF/ft)
Door Contact	1.000	25.000
Rex/Spare	1.000	25.000
Lock Power	1.000	30.000
Card Reader	1.000	33.000

Nom. Conductor DC Resistance:

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

Nominal Outer Shield DC Resistance:

Description	DCR @ 20°C (Ohm/1000 ft)
Card Reader	13.900

Max. Operating Voltage - UL:

Voltage	Description
300 V RMS	UL type CMP

Max. Recommended Current:

Description	Current
Door Contact	2.2 Amps @ 25C ambient (10C temperature rise)
Rex/Spare	2.2 Amps @ 25C ambient (10C temperature rise)
Lock Power	4.0 Amps @ 25C ambient (10C temperature rise)
Card Reader	2.2 Amps @ 25C ambient (10C temperature rise)

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Physical Characteristics (Overall)

Conductor

Outer Shield

Outer Shield Material:

Outer Shield Material
Unshielded

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
Unjacketed

Overall Cable

Overall Nominal Diameter: 0.401 in.

Mechanical Characteristics (Overall)

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

UL Temperature Rating: 75C

Bulk Cable Weight: 100 lbs/1000 ft.

Max. Recommended Pulling Tension: 217 lbs.

Min. Bend Radius/Minor Axis: 4 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMP

NEC Articles: 800

CEC/C(UL) Specification: CMP

EU Directive 2011/65/EU (ROHS II): Yes

EU CE Mark: Yes

EU Directive 2000/53/EC (ELV): Yes

EU Directive 2002/95/EC (RoHS): Yes

EU RoHS Compliance Date (mm/dd/yyyy): 04/01/2005

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

Applicable Patents:

Country
www.belden.com/p

Flame Test

UL Flame Test: NFPA 262

C(UL) Flame Test: FT6

Suitability

Suitability - Indoor: Yes

Plenum/Non-Plenum

Plenum (Y/N): Yes

Non-Plenum Number: 558GMS

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.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
658GMS 0001000	1,000 FT	94.000 LB	NONE	C	4C22+4C22+6C22 FS+4C18 CMP BP

Notes:
C = CRATE REEL PUT-UP.

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