

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 Flamarrest® insulation, Each cable has Flamarrest® 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 |
|-----------------------|---------------------------------------|------------|-----|
| Flamarrest® | LS PVC - Low Smoke Polyvinyl Chloride | 0.047 | 22 |
| Flamarrest® | 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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