



Product: [658GFS](#)

Access Control, 18c (#22-6pr, #18-4c, #22-2c), Shielded, CMP

Product 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

Technical Specifications

Product Overview

| | |
|------------------------|--|
| Suitable Applications: | Access Control, Security System, Power Limited Controls |
| Patent: | This product has one or more applicable patents. More information on patents can be found at https://www.belden.com/resources/patents . |

Construction Details

Conductor

| Element Description | Element | Number of Element | AWG | Stranding | Material |
|---------------------|--------------|-------------------|-----|-----------|------------------|
| Card Reader | Pair(s) | 3 | 22 | 7x30 | BC - Bare Copper |
| Card Reader | Pair(s) | 3 | 22 | 7x30 | BC - Bare Copper |
| Door Contact | Conductor(s) | 2 | 22 | 7x30 | BC - Bare Copper |
| Lock Power | Conductor(s) | 4 | 18 | 7x26 | BC - Bare Copper |

Insulation

| Element Description | Element | Material | Nom. Insulation Diameter | Color Code |
|---------------------|--------------|--------------------------|--------------------------|--|
| Card Reader | Pair(s) | PVC - Polyvinyl Chloride | 0.047 | Black & Red, White & Green, Brown & Orange |
| Card Reader | Pair(s) | PVC - Polyvinyl Chloride | 0.047 | Black & Red, White & Green, Brown & Orange |
| Door Contact | Conductor(s) | PVC - Polyvinyl Chloride | 0.047 | Black, Red |
| Lock Power | Conductor(s) | PVC - Polyvinyl Chloride | 0.066 | Black, Red, White, Green |

Inner Shield Material

| Element Description | Element | Shield Type | Material | Coverage | Drainwire Type |
|---------------------|--------------|-------------|-------------------------|----------|------------------|
| Card Reader | Pair(s) | Tape | Bi-Laminate (Alum+Poly) | 100% | 24 AWG (7x32) TC |
| Card Reader | Pair(s) | Tape | Bi-Laminate (Alum+Poly) | 100% | 24 AWG (7x32) TC |
| Door Contact | Conductor(s) | Tape | Bi-Laminate (Alum+Poly) | 100% | 24 AWG (7x32) TC |
| Lock Power | Conductor(s) | Tape | Bi-Laminate (Alum+Poly) | 100% | 24 AWG (7x32) TC |

Inner Jacket Material

| Element Description | Element | Material | Nom. Diameter | Ripcord | Color |
|---------------------|--------------|--------------------------|---------------|---------|--------|
| Card Reader | Pair(s) | PVC - Polyvinyl Chloride | 0.216 in | Yes | Orange |
| Card Reader | Pair(s) | PVC - Polyvinyl Chloride | 0.216 in | Yes | Yellow |
| Door Contact | Conductor(s) | PVC - Polyvinyl Chloride | 0.128 in | Yes | White |
| Lock Power | Conductor(s) | PVC - Polyvinyl Chloride | 0.193 in | Yes | Gray |

Outer Jacket Material

| Material | Ripcord |
|--------------------------|---------|
| PVC - Polyvinyl Chloride | Yes |
| No Jacket | |

| | |
|--------------|--------------|
| Table Notes: | Banana Peel® |
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| | |
|---------------------------|----------|
| Cable Diameter (Nominal): | 0.456 in |
|---------------------------|----------|

Electrical Characteristics

Electricals

| Element Description | Element | Nom. Conductor DCR | Nom. Inner Shield DCR | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Shield | Max. Current |
|---------------------|--------------|--------------------|-----------------------|-------------------------------|---------------------------------|--------------------------------|
| Card Reader | Pair(s) | 16.3 Ohm/1000ft | 13.9 Ohm/1000ft | 33 pF/ft | 60 pF/ft | 2.2 Amps per Conductor at 25°C |
| Card Reader | Pair(s) | 16.3 Ohm/1000ft | 13.9 Ohm/1000ft | 33 pF/ft | 60 pF/ft | 2.2 Amps per Conductor at 25°C |
| Door Contact | Conductor(s) | 16.4 Ohm/1000ft | 16.7 Ohm/1000ft | 55 pF/ft | 99 pF/ft | 2.2 Amps per Conductor at 25°C |
| Lock Power | Conductor(s) | 6.5 Ohm/1000ft | 15.9 Ohm/1000ft | 40 pF/ft | 72 pF/ft | 4 Amps per Conductor at 25°C |

Voltage

| |
|--------------------------|
| UL Voltage Rating |
| 300 V (UL CMP) |

Mechanical Characteristics

Temperature

| UL Rating | Operating | Installation |
|-----------|---------------|---------------|
| 75°C | -5°C to +75°C | -5°C To +75°C |

Bend Radius

| |
|------------------------|
| Stationary Min. |
| 4.75 in |

| | |
|--------------------|----------------|
| Max. Pull Tension: | 163 lbs |
| Bulk Cable Weight: | 104 lbs/1000ft |

Standards and Compliance

| | |
|---------------------------------|---|
| Environmental Suitability: | Indoor |
| Flammability / Fire Resistance: | NFPA 262, FT6 |
| NEC / UL Compliance: | Article 800, CMP |
| CEC / C(UL) Compliance: | CMP |
| European Directive Compliance: | EU CE Mark, EU Directive 2015/863/EU, EU Directive 2011/65/EU (ROHS II), EU Directive 2012/19/EU (WEEE) |
| APAC Compliance: | China RoHS II (GB/T 26572-2011) |
| Non-Plenum Number: | 558GFS |

Product Notes

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| 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. |
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History

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| Update and Revision: | Revision Number: 0.307 Revision Date: 09-30-2020 |
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