## Product: [558ANH](#) ⧉

# Access Control, 16c (#22-3pr, #18-4c, #22-6c), Shielded, LSZH Banana Peel®, CMG-LS

## Product Description

Access Control Cable, Riser-CMR, 3-22 AWG pairs, 4-18 AWG conductors, 4-22 AWG conductors, 2-22 AWG conductors, All conductors stranded bare copper with polyolefin insulation, Each cable has overall Beldfoil® shield and LSZH 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 | TC - Tinned Copper |
| Door Contact | Conductor(s) | 2 | 22 | 7x30 | TC - Tinned Copper |
| REX/Spare | Conductor(s) | 4 | 22 | 7x30 | TC - Tinned Copper |
| Lock Power | Conductor(s) | 4 | 18 | 7x26 | BC - Bare Copper |

**Insulation**

| Element Description | Element | Material | Color Code |
|---|---|---|---|
| Card Reader | Pair(s) | PP - Polypropylene | Black & Red, White & Green, Brown & Orange |
| Door Contact | Conductor(s) | PP - Polypropylene | Black, Red |
| REX/Spare | Conductor(s) | PP - Polypropylene | Black, Red, White, Green |
| Lock Power | Conductor(s) | PP - Polypropylene | 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 |
| Door Contact | Conductor(s) | Tape | Bi-Laminate (Alum+Poly) | 100% | 24 AWG (7x32) TC |
| REX/Spare | 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) | LSZH - Low Smoke Zero Halogen (Flame Retardant) | 0.252 in | Yes | Orange |
| Door Contact | Conductor(s) | LSZH - Low Smoke Zero Halogen (Flame Retardant) | 0.165 in | Yes | White |
| REX/Spare | Conductor(s) | LSZH - Low Smoke Zero Halogen (Flame Retardant) | 0.184 in | Yes | Blue |
| Lock Power | Conductor(s) | LSZH - Low Smoke Zero Halogen (Flame Retardant) | 0.216 in | Yes | Gray |

**Outer Jacket Material**

| Nom. Diameter |
|---|
| 0.493 in |

| | |
|---|---|
| Table Notes: | Banana Peel® |
| Cable Diameter (Nominal): | 0.493 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 | 23 pF/ft | 41 pF/ft | 2 Amps per Conductor at 25ºC |
| Door Contact | Conductor(s) | 16.4 Ohm/1000ft | 16.1 Ohm/1000ft | 36 pF/ft | 65 pF/ft | 2.2 Amps per Conductor at 25ºC |
| REX/Spare | Conductor(s) | 16.4 Ohm/1000ft | 16.1 Ohm/1000ft | 23 pF/ft | 41 pF/ft | 2.2 Amps per Conductor at 25ºC |
| Lock Power | Conductor(s) | 6.5 Ohm/1000ft | 7.3 Ohm/1000ft | 30 pF/ft | 54 pF/ft | 4 Amps per Conductor at 25ºC |

**Voltage**

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

## Mechanical Characteristics

**Temperature**

| Operating |
|---|
| 0°C to +75°C |

**Bend Radius**

| Stationary Min. |
|---|
| 5 in |

| | |
|---|---|
| Max. Pull Tension: | 200 lbs |
| Bulk Cable Weight: | 107 lbs/1000ft |

## Standards and Compliance

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|---|---|
| Environmental Suitability: | Indoor (Not Riser or Plenum), Indoor |
| Sustainability: | Product Lens™, Environmental Product Declaration (EPD) Available |
| Flammability / Fire Resistance: | UL1685 FT4 Loading, Limited Smoke, FT4 |
| NEC / UL Compliance: | Article 800, CMG-LS |
| CEC / C(UL) Compliance: | CMG-LS |
| 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) |
| Plenum Number: | 658AFS |
| Non-Plenum Number: | 558AFS |

## Product Notes

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|---|---|
| Notes: | Cold envionment 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. |

## History

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| Update and Revision: | Revision Number: 0.313 Revision Date: 09-30-2020 |