



**Product:** [558AM1](#) 

## Indoor/Outdoor Access Control CM Rated Composite

### Product Description

Access Control, 16c (#22-6C,18-4c, #22-6c), Only Card Reader Pairs Shielded, Indoor/Outdoor CM

### Technical Specifications

#### Product Overview

|                        |                                                                         |
|------------------------|-------------------------------------------------------------------------|
| Suitable Applications: | Indoor/Outdoor: Access Control, Security System, Power Limited Controls |
|------------------------|-------------------------------------------------------------------------|

#### Construction Details

##### Conductor

| Element Description | Element      | No. of Conductors | Size   | Stranding | Material         |
|---------------------|--------------|-------------------|--------|-----------|------------------|
| Card Reader         | Conductor(s) | 6                 | 22 AWG | 7x30      | BC - Bare Copper |
| Door Contact        | Conductor(s) | 2                 | 22 AWG | 7x30      | BC - Bare Copper |
| REX/Spare           | Conductor(s) | 4                 | 22 AWG | 7x30      | BC - Bare Copper |
| Lock Power          | Conductor(s) | 4                 | 18 AWG | 7x26      | BC - Bare Copper |

##### Insulation

| Element Description | Element      | Material                 | Nom. Thickness    | Color Code                            |
|---------------------|--------------|--------------------------|-------------------|---------------------------------------|
| Card Reader         | Conductor(s) | PVC - Polyvinyl Chloride | .010 in (0.25 mm) | Black, Red, White, Green, Brown, Blue |
| Door Contact        | Conductor(s) | PVC - Polyvinyl Chloride | .010 in (0.25 mm) | Black, Red                            |
| REX/Spare           | Conductor(s) | PVC - Polyvinyl Chloride | .010 in (0.25 mm) | Black, Red, White, Green              |
| Lock Power          | Conductor(s) | PVC - Polyvinyl Chloride | .012 in (0.30 mm) | Black, Red, White, Green              |

##### Inner Shield

| Element Description | Element      | Shield Type | Material                | Coverage | Drainwire Type   |
|---------------------|--------------|-------------|-------------------------|----------|------------------|
| Card Reader         | Conductor(s) | Tape        | Bi-Laminate (Alum+Poly) | 100%     | 24 AWG (7x32) TC |
| Door Contact        | Conductor(s) | No Shield   |                         |          |                  |
| REX/Spare           | Conductor(s) | No Shield   |                         |          |                  |
| Lock Power          | Conductor(s) | No Shield   |                         |          |                  |

|                |                 |
|----------------|-----------------|
| Waterblocking: | Waterblock Tape |
|----------------|-----------------|

##### Inner Jacket

| Element Description | Element      | Separator          | Material                 | Nom. Thickness    | Nom. Diameter     | Ripcord | Color  |
|---------------------|--------------|--------------------|--------------------------|-------------------|-------------------|---------|--------|
| Card Reader         | Conductor(s) | Waterblocking Tape | PVC - Polyvinyl Chloride | .025 in (0.64 mm) | .226 in (5.74 mm) | Yes     | Orange |
| Door Contact        | Conductor(s) | Waterblocking Tape | PVC - Polyvinyl Chloride | .025 in (0.64 mm) | .168 in (4.27 mm) | Yes     | White  |
| REX/Spare           | Conductor(s) | Waterblocking Tape | PVC - Polyvinyl Chloride | .025 in (0.64 mm) | .187 in (4.75 mm) | Yes     | Blue   |
| Lock Power          | Conductor(s) | Waterblocking Tape | PVC - Polyvinyl Chloride | .025 in (0.64 mm) | .233 in (5.92 mm) | Yes     | Gray   |

##### Outer Jacket

| Material                 | Nom. Diameter     |
|--------------------------|-------------------|
| PVC - Polyvinyl Chloride | .565 in (14.4 mm) |

|                                   |                   |
|-----------------------------------|-------------------|
| Overall Cable Diameter (Nominal): | .565 in (14.4 mm) |
|-----------------------------------|-------------------|

#### Electrical Characteristics

##### Electricals

| Element Description | Element      | Max. Conductor DCR            | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) |
|---------------------|--------------|-------------------------------|-------------------------------|-------------------------------------------------|
| Card Reader         | Conductor(s) | 16.3 Ohm/1000ft (53.5 Ohm/km) | 55 pF/ft (180 pF/m)           | 99 pF/ft (320 pF/m)                             |
| Door Contact        | Conductor(s) | 16.3 Ohm/1000ft (53.5 Ohm/km) | 27 pF/ft (89 pF/m)            |                                                 |
| REX/Spare           | Conductor(s) | 16.3 Ohm/1000ft (53.5 Ohm/km) | 27 pF/ft (89 pF/m)            |                                                 |
| Lock Power          | Conductor(s) | 6.5 Ohm/1000ft (21 Ohm/km)    | 34 pF/ft (110 pF/m)           |                                                 |

Voltage

| UL Voltage Rating |
|-------------------|
| 300 V             |

Mechanical Characteristics

Temperature

| UL Temperature | Operating      |
|----------------|----------------|
| 60°C           | -20°C to +60°C |

Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 5.6 in (140 mm) | 5.6 in (140 mm)   |

Standards and Compliance

|                                  |                                                                                                               |
|----------------------------------|---------------------------------------------------------------------------------------------------------------|
| Environmental Suitability:       | Indoor/OutdoorIndoor Rated (Not Riser or Plenum)                                                              |
| Flammability / Reaction to Fire: | UL 1685                                                                                                       |
| CPR Compliance:                  | CPR Euroclass: Eca                                                                                            |
| NEC / UL Compliance:             | Article 800, CM                                                                                               |
| European Directive Compliance:   | EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE) |
| APAC Compliance:                 | China RoHS II (GB/T 26572-2011)                                                                               |
| Plenum Number:                   | 658AMJ                                                                                                        |

History

|                      |                                                 |
|----------------------|-------------------------------------------------|
| Update and Revision: | Revision Number: 0.27 Revision Date: 03-24-2024 |
|----------------------|-------------------------------------------------|

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