



Product: [658AMJ](#)

Access Control, 16c (#22-3pr, #18-4c, #22-6c), Only Card Reader Pairs Shielded, Outer Jacket, CMP

Product Description

Access Control Cable, Plenum-CMP, 3-22 AWG pairs, 4-18 AWG conductors, 4-22 AWG conductors, 2-22 AWG conductors, All conductors stranded bare copper with Flamarrest® insulation, 3-22 AWG pairs have overall Beldfoil® shield and Flamarrest® jacket, overall Flamarrest® jacket

Technical Specifications

Product Overview

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

Construction Details

Conductor

| Element Description | Element | Number of Element | Size | Stranding | Material |
|---------------------|--------------|-------------------|--------|-----------|------------------|
| Card Reader | Pair(s) | 3 | 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 | Pair(s) | PVC - Polyvinyl Chloride | 0.009 in (0.23 mm) | Black & Red, White & Green, Brown & Orange |
| Door Contact | Conductor(s) | PVC - Polyvinyl Chloride | 0.009 in (0.23 mm) | Black, Red |
| REX/Spare | Conductor(s) | PVC - Polyvinyl Chloride | 0.009 in (0.23 mm) | Black, Red, White, Green |
| Lock Power | Conductor(s) | PVC - Polyvinyl Chloride | 0.010 in (0.25 mm) | Black, Red, White, Green |

Inner Shield

| 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) | No Shield | | | |
| REX/Spare | Conductor(s) | No Shield | | | |
| Lock Power | Conductor(s) | No Shield | | | |

Inner Jacket

| Element Description | Element | Material | Nom. Diameter | Ripcord | Color |
|---------------------|--------------|--------------------------|--------------------|---------|--------|
| Card Reader | Pair(s) | PVC - Polyvinyl Chloride | 0.216 in (5.49 mm) | Yes | Orange |
| Door Contact | Conductor(s) | PVC - Polyvinyl Chloride | 0.124 in (3.15 mm) | Yes | White |
| REX/Spare | Conductor(s) | PVC - Polyvinyl Chloride | 0.143 in (3.63 mm) | Yes | Blue |
| Lock Power | Conductor(s) | PVC - Polyvinyl Chloride | 0.189 in (4.80 mm) | Yes | Gray |

Outer Jacket

| Material | Nom. Thickness | Nom. Diameter | Ripcord |
|--------------------------|--------------------|--------------------|---------|
| PVC - Polyvinyl Chloride | 0.020 in (0.51 mm) | 0.455 in (11.6 mm) | Yes |

Overall Cable Diameter (Nominal): 0.455 in (11.6 mm)

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 (53.5 Ohm/km) | 14.9 Ohm/1000ft (48.9 Ohm/km) | 33 pF/ft (110 pF/m) | 60 pF/ft (200 pF/m) | 2 Amps per Conductor at 25°C |
| Door Contact | Conductor(s) | 16.4 Ohm/1000ft (53.8 Ohm/km) | | 27 pF/ft (89 pF/m) | | 2.2 Amps per Conductor at 25°C |
| REX/Spare | Conductor(s) | 16.4 Ohm/1000ft (53.8 Ohm/km) | | 27 pF/ft (89 pF/m) | | 2.2 Amps per Conductor at 25°C |
| Lock Power | Conductor(s) | 6.5 Ohm/1000ft (21 Ohm/km) | | 34 pF/ft (110 pF/m) | | 4 Amps per Conductor at 25°C |

Voltage

UL Voltage Rating

300 V (UL CMP)

Mechanical Characteristics

Temperature

| UL Temperature | Operating |
|----------------|--------------|
| 0°C to +75°C | 0°C to +75°C |

Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 4.6 in (120 mm) | 4.6 in (120 mm) |

| | |
|--------------------|----------------------------|
| Max. Pull Tension: | 200 lbs (91 kg) |
| Bulk Cable Weight: | 102 lbs/1000ft (152 kg/km) |

Standards and Compliance

| | |
|----------------------------------|---|
| Environmental Suitability: | Indoor - Plenum, Indoor |
| Sustainability: | Product Lens™, Environmental Product Declaration (EPD) Available |
| Flammability / Reaction to Fire: | NFPA 262, FT6, IEC 60332-1-2 |
| NEC / UL Compliance: | Article 800, CMP |
| CEC / C(UL) Compliance: | CMP |
| European Directive Compliance: | EU CE Mark, 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) |
| Non-Plenum Number: | 558AMJ |

History

Update and Revision: Revision Number: 0.251 Revision Date: 02-08-2022

Part Numbers

Variants

| Item # | Color | Putup Type | Length | UPC |
|----------------|--------|------------|----------|--------------|
| 658AMJ 0041000 | Yellow | Reel | 1,000 ft | 612825178637 |

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