

658AMJ Composite - Lock Power, Card Reader, Door Contract, REX Applications



For more Information
please call

1-800-Belden1



General 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

Usage (Overall)

Suitable Applications: Access Control

Twisted Pair

Physical Characteristics

Conductor

AWG:

| # Pairs | AWG | Stranding | Conductor Material | Dia. (in.) |
|---------|-----|-----------|--------------------|------------|
| 3 | 22 | 7x30 | BC - Bare Copper | 0.030 |

Insulation

Insulation Material:

| Insulation Trade Name | Insulation Material | Dia. (in.) |
|-----------------------|---------------------------------------|------------|
| Flamarrest® | LS PVC - Low Smoke Polyvinyl Chloride | 0.047 |

Twisted Pair Color Code Chart:

| Number | Color | Description |
|--------|------------------|---------------|
| 1 | Black and Red | Card Reader 1 |
| 2 | Green and White | Card Reader 2 |
| 3 | Orange and Brown | Card Reader 3 |

Individual Shield

Outer Shield

Outer Shield Material:

| Outer Shield Trade Name | Type | Outer Shield Material | Coverage (%) |
|-------------------------|------|------------------------------|--------------|
| Beldfoil® | Tape | Aluminum Foil-Polyester Tape | 100.000 |

Outer Shield Drain Wire AWG:

| AWG | Stranding | Drain Wire Conductor Material |
|-----|-----------|-------------------------------|
| 24 | (7x32) | TC - Tinned Copper |

Outer Jacket

Outer Jacket Material:

| Outer Jacket Trade Name | Outer Jacket Material |
|-------------------------|---------------------------------------|
| Flamarrest® | LS PVC - Low Smoke Polyvinyl Chloride |

Outer Jacket Diameter:

| Nom. Dia. (in.) |
|-----------------|
| 0.216 |

Outer Jacket Color Code Chart:

| Number | Color | Description |
|--------|--------|-------------|
| 1 | Orange | Card Reader |

Electrical Characteristics

Nom. Capacitance Conductor to Shield:

| Capacitance (pF/ft) |
|---------------------|
| 60.000 |

Nom. Capacitance Conductor to Conductor:

| Capacitance (pF/ft) |
|---------------------|
| 33.000 |

Nom. Conductor DC Resistance:

| DCR @ 20°C (Ohm/1000 ft) |
|--------------------------|
| 16.300 |

Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: 13.900 Ohm/1000 ft

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Max. Recommended Current:

| Description | Current |
|-------------|---------|
| Card Reader | 2 |

Multi Conductor

Physical Characteristics

Conductor

AWG:

| # Conductors | AWG | Stranding | Conductor Material | Dia. (in.) |
|--------------|-----|-----------|--------------------|------------|
| 2 | 22 | 7x30 | BC - Bare Copper | 0.030 |
| 4 | 22 | 7x30 | BC - Bare Copper | 0.030 |
| 4 | 18 | 7x26 | BC - Bare Copper | 0.047 |

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 | Black | Rex/Spare 1 |
| 4 | Red | Rex/Spare 2 |
| 5 | White | Rex/Spare 3 |
| 6 | Green | Rex/Spare 4 |
| 7 | Black | Lock/Power 1 |
| 8 | Red | Lock/Power 2 |
| 9 | White | Lock/Power 3 |
| 10 | Green | Lock/Power 4 |

Individual Shield

Outer Jacket

Outer Jacket Material:

| Outer Jacket Trade Name | Outer Jacket Material |
|-------------------------|---------------------------------------|
| Flamarrest® | LS PVC - Low Smoke Polyvinyl Chloride |

Outer Jacket Diameter:

| Component # | Nom. Dia. (in.) |
|--------------|-----------------|
| Door Contact | 0.124 |
| Rex/Spare | 0.143 |
| Lock/Power | 0.189 |

Outer Jacket Ripcord:

Yes

Outer Jacket Color Code Chart:

| Number | Color | Description |
|--------|-------|--------------|
| 1 | White | Door Contact |
| 2 | Blue | Rex/Spare |
| 3 | Gray | Lock/Power |

Electrical Characteristics

Nom. Capacitance Conductor to Conductor:

| Description | Freq. (MHz) | Capacitance (pF/ft) |
|--------------|-------------|---------------------|
| Door Contact | 1.000 | 27.000 |
| Rex/Spare | 1.000 | 27.000 |
| Lock Power | 1.000 | 34.000 |

Nom. Conductor DC Resistance:

| Description | DCR @ 20°C (Ohm/1000 ft) |
|--------------|--------------------------|
| Door Contact | 16.400 |
| Rex/Spare | 16.400 |
| Lock Power | 6.500 |

Max. Operating Voltage - UL:

| Voltage |
|-----------|
| 300 V RMS |

Max. Recommended Current:

| Description | Current |
|--------------|----------|
| Door Contact | 2.2 Amps |
| Rex/Spare | 2.2 Amps |

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| | |
|------------|--------|
| Lock Power | 4 Amps |
|------------|--------|

Physical Characteristics (Overall)

Conductor

Outer Jacket

Outer Jacket Material:

Outer Jacket Trade Name

Flamarrest®

Overall Cable

Overall Nominal Diameter: 0.455 in.

Mechanical Characteristics (Overall)

Operating Temperature Range: 0°C To +75°C

Bulk Cable Weight: 101 lbs/1000 ft.

Max. Recommended Pulling Tension: 200 lbs.

Min. Bend Radius/Minor Axis: 4.500 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): 05/09/2007

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

Flame Test

UL Flame Test: NFPA 262 Plenum Flame Test (UL910)(FT6)

Suitability

Suitability - Indoor: Yes

Plenum/Non-Plenum

Plenum (Y/N): Yes

Non-Plenum Number: 558AFJ

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|----------------|----------|-------------|--------|-------|----------------------------|
| 658AMJ 0041000 | 1,000 FT | 109.000 LB | YELLOW | C | 3P22 FS+2C22+4C22+4C18 CMP |

Notes:

C = CRATE REEL PUT-UP.

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