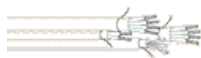


658AMJ Composite - Lock Power, Card Reader, Door Contract, REX Applications



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

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

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 |

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

| | |
|------------|--------|
| 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.

Revision Number: 0 Revision Date: 01-20-2015

© 2016 Belden, Inc.
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability. Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein. All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 2014/35/EU).