Belden



# Product: DEIP168F

Digital Electricity™, 8 Pr #16 Str TC, O/A Foil, Flamarrest® Jkt, CL4P, CMP

## Product Description

Digital Electricity™ Optimized Cable, 8 Twisted Pair 16 AWG (19 x 29) Stranded Tinned Copper, Flamarrest® Insulation, Overall Foil Shield, Flamarrest® Apple Green Jacket, Ripcord, CL4P, CMP, 2000 Ft Reel

## Technical Specifications

### Product Overview

| | |
|---|---|
| Suitable Applications: | Digital Electricity™, Fault Managed Power Systems (FMPS), remote powering, indoor |

### Construction Details

**Conductor**

| Size | Stranding | Material |
|---|---|---|
| 16 | 19x29 | TC - Tinned Copper |

**Insulation**

| Nom. Thickness | Color Code |
|---|---|
| 0.011 in (0.28 mm) | Black & Red, Black & White, Black & Green, Black & Blue, Black & Yellow, Black & Brown, Black & Orange, Red & White |

**Outer Shield**

| Shield Type | Material | Coverage |
|---|---|---|
| Tape | Bi-Laminate (Alum+Poly) | 100% |

**Outer Jacket**

| Material | Nom. Thickness | Nom. Diameter |
|---|---|---|
| PVC - Polyvinyl Chloride | 0.017 in (0.43 mm) | 0.483 in (12.3 mm) |

### Electrical Characteristics

**Electricals**

| Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Max. Current |
|---|---|---|---|
| 4.3 Ohm/1000ft | 37.5 pF/ft (123 pF/m) | 67.25 pF/ft (220.6 pF/m) | 5.5 Amps per Conductor at 25ºC (35°C Temperature Rise) |

| | |
|---|---|
| Nom Outer Shield DCR@Cond DCR1-cnv: | 15.6 Ohm/1000ft (51.2 Ohm/km) |

**Voltage**

| UL Voltage Rating |
|---|
| 450 V RMS |

### Mechanical Characteristics

**Temperature**

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

| | |
|---|---|
| Max. Pull Tension: | 640 lbs (290 kg) |
| Bulk Cable Weight: | 182 lbs/1000ft |

### Standards and Compliance

| | |
|---|---|
| Environmental Suitability: | Indoor |
| Flammability / Reaction to Fire: | NFPA 262, FT6 |
| NEC / UL Compliance: | Article 800, CL4P, CL3P |
| 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), REACH: 2020-01-31 |
| APAC Compliance: | China RoHS II (GB/T 26572-2011) |

## History

| | |
|---|---|
| Update and Revision: | Revision Number: 0.120 Revision Date: 09-07-2025 |

## Part Numbers

**Variants**

| Item # | Color | Length |
|---|---|---|
| DEIP168F | Apple Green | 2,000 ft |

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