



## Product: [DEDN164F](#)

Indoor/Outdoor Digital Electricity™, 4 Pr #16 Str TC, O/A Foil, PVC Jkt, CL4, CMG, Wet Locations

### Product Description

Indoor/Outdoor Digital Electricity™ Copper Cable, 4 Twisted Pair 16 AWG (7 x 24) Stranded Tinned Copper, PVC Insulation, Overall foil shield, Black PVC Jacket, Ripcord, CL4, CMG, Wet Locations, 2000 Ft Reel

### Technical Specifications

#### Product Overview

|                        |                                                                                                      |
|------------------------|------------------------------------------------------------------------------------------------------|
| Suitable Applications: | Digital Electricity™, Fault Managed Power Systems (FMPS), remote powering, wet locations, in-conduit |
|------------------------|------------------------------------------------------------------------------------------------------|

#### Construction Details

##### Conductor

| Size | Stranding | Material           |
|------|-----------|--------------------|
| 16   | 7x24      | TC - Tinned Copper |

##### Insulation

| Material                 | Nom. Thickness     | Color Code                                              |
|--------------------------|--------------------|---------------------------------------------------------|
| PVC - Polyvinyl Chloride | 0.017 in (0.43 mm) | Black & Red, Black & White, Black & Green, Black & Blue |

##### Outer Shield

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

##### Outer Jacket

| Material                 | Nom. Thickness    | Nom. Diameter      |
|--------------------------|-------------------|--------------------|
| PVC - Polyvinyl Chloride | 0.040 in (1.0 mm) | 0.482 in (12.2 mm) |

#### Electrical Characteristics

##### Electricals

| Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Max. Current                                           |
|--------------------|-------------------------------|-------------------------------------------------|--------------------------------------------------------|
| 4.55 Ohm/1000ft    | 32.5 pF/ft (107 pF/m)         | 58.5 pF/ft (192 pF/m)                           | 7.5 Amps per Conductor at 25°C (35°C Temperature Rise) |

|                       |                            |
|-----------------------|----------------------------|
| Nom Outer Shield DCR: | 4.8 Ohm/1000ft (16 Ohm/km) |
|-----------------------|----------------------------|

##### Voltage

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

#### Mechanical Characteristics

##### Temperature

| UL Temperature | Operating       |
|----------------|-----------------|
| 105°C          | -30°C To +105°C |

|                    |                  |
|--------------------|------------------|
| Max. Pull Tension: | 285 lbs (129 kg) |
| Bulk Cable Weight: | 125 lbs/1000ft   |

#### Standards and Compliance

|                                  |                                                                                                                                              |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Environmental Suitability:       | Indoor, Outdoor, Sunlight Resistance                                                                                                         |
| Flammability / Reaction to Fire: | UL 1685 FT4 Loading, FT4                                                                                                                     |
| NEC / UL Compliance:             | Article 725, Article 800, CL4, CL3, CMG                                                                                                      |
| AWM Compliance:                  | AWM 2464                                                                                                                                     |
| CEC / C(UL) Compliance:          | CMG                                                                                                                                          |
| 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: 2020-01-08 |
| APAC Compliance:                 | China RoHS II (GB/T 26572-2011)                                                                                                              |

History

|                      |                                                 |
|----------------------|-------------------------------------------------|
| Update and Revision: | Revision Number: 0.57 Revision Date: 09-07-2025 |
|----------------------|-------------------------------------------------|

Part Numbers

Variants

| Item #   | Color | Length   |
|----------|-------|----------|
| DEDN164F | Black | 2,000 ft |

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