



**Product:** [DEDN162U](#) 

Indoor/Outdoor Digital Electricity Copper Cable, #16-2pr, TC, PVC, CMG, PVC Jkt

## Product Description

Indoor/Outdoor Digital Electricity Copper Cable, 2-16 AWG Stranded (7x24) Tinned Copper Pairs, Unshielded, PVC Insulation, PVC Jacket

## Technical Specifications

### Product Overview

|                        |  |
|------------------------|--|
| Suitable Applications: | Digital Electricity™, remote powering, wet locations, in-conduit |
|------------------------|--|

### Physical Characteristics (Overall)

#### Conductor

| AWG | Stranding | Material           | No. of Pairs |
|-----|-----------|--------------------|--------------|
| 16  | 7x24      | TC - Tinned Copper | 2            |

|                        |    |
|------------------------|----|
| Conductor Count:       | 16 |
| Total Number of Pairs: | 2  |

#### Insulation

| Material                 | Nominal Wall Thickness |
|--------------------------|------------------------|
| PVC - Polyvinyl Chloride | 0.017 in               |

#### Color Chart

| Number | Color         |
|--------|---------------|
| 1      | Black & Red   |
| 2      | Black & White |

#### Outer Jacket Material

| Material                 | Nominal Diameter | Nominal Wall Thickness |
|--------------------------|------------------|------------------------|
| PVC - Polyvinyl Chloride | 0.409 in         | 0.040 in               |

### Electrical Characteristics

#### Conductor DCR

| Nominal Conductor DCR |
|-----------------------|
| 4.55 Ohm/1000ft       |

#### Capacitance

| Nom. Capacitance Conductor to Conductor |
|---|
| 24.5 pF/ft                              |

#### Current

| Max. Recommended Current [A]                            |
|---|
| 8.75 Amps per Conductor at 25°C (35°C Temperature Rise) |

#### Voltage

| UL Voltage Rating |
|-------------------|
| 300 V RMS         |

## Temperature Range

|                       |                 |
|-----------------------|-----------------|
| UL Temp Rating:       | 105°C           |
| Operating Temp Range: | -30°C To +105°C |

## Mechanical Characteristics

|                             |               |
|-----------------------------|---------------|
| Bulk Cable Weight:          | 70 lbs/1000ft |
| Max. Pull Tension:          | 143 lbs       |
| Min Bend Radius/Minor Axis: | 4.09 in       |

## Standards

|                          |                          |
|--------------------------|--------------------------|
| NEC Articles:            | Article 725, Article 800 |
| NEC/(UL) Compliance:     | CL3, CMG                 |
| CEC/C(UL) Compliance:    | CMG                      |
| UL AWM Style Compliance: | 2464                     |

## Applicable Environmental and Other Programs

|  |                               |
|--|-------------------------------|
| EU Directive 2000/53/EC (ELV):         | Yes                           |
| EU Directive 2003/11/EC (BFR):         | Yes                           |
| EU Directive 2011/65/EU (ROHS II):     | Yes                           |
| EU Directive 2012/19/EU (WEEE):        | Yes                           |
| EU Directive 2015/863/EU:              | Yes                           |
| EU Directive Compliance:               | EU Directive 2003/11/EC (BFR) |
| EU CE Mark:                            | Yes                           |
| EU REACH SVHC Compliance (yyyy-mm-dd): | 2019-05-14                    |
| EU RoHS Compliance Date (yyyy-mm-dd):  | 2019-05-14                    |

## Suitability

|                                    |     |
|------------------------------------|-----|
| Suitability - Indoor:              | Yes |
| Suitability - Outdoor:             | Yes |
| Suitability - Sunlight Resistance: | Yes |

## Flammability, LSOH, Toxicity Testing

|                     |                     |
|---------------------|---------------------|
| C(UL) Flammability: | FT4                 |
| UL Flammability:    | UL 1685 FT4 Loading |
| IEEE Flammability:  | 1202                |

## Part Number

### Variants

| Item #   | Color | Length   |
|----------|-------|----------|
| DEDN162U | Black | 2,000 ft |

## History

|                      |   |
|----------------------|---|
| Update and Revision: | Revision Number: 0.40 Revision Date: 07-01-2020 |
|----------------------|---|

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