



Product: [DEDN188F](#)

Digital Electricity™, 8 Pr #18 Str TC, O/A Foil, PVC Jkt, CMG, Wet Locations

Product Description

Digital Electricity™ Optimized Cable, 8 Twisted Pair 18 AWG (7 x 26) Stranded Tinned Copper, PVC Insulation, Overall foil shield, Black PVC Jacket, Ripcord, CMG, Wet Locations, 2000 Ft Reel

Technical Specifications

Product Overview

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

Physical Characteristics (Overall)

Conductor

| AWG | Stranding | Material | No. of Pairs |
|-----|-----------|--------------------|--------------|
| 18 | 7x26 | TC - Tinned Copper | 8 |

| | |
|------------------------|---|
| Total Number of Pairs: | 8 |
|------------------------|---|

Insulation

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

Color Chart

| Number | Color |
|--------|----------------|
| 1 | Black & Red |
| 2 | Black & White |
| 3 | Black & Green |
| 4 | Black & Blue |
| 5 | Black & Yellow |
| 6 | Black & Brown |
| 7 | Black & Orange |
| 8 | Red & White |

Outer Shield Material

| Type | Material | Material Trade Name | Coverage [%] | Drainwire Material | Drainwire AWG |
|------|-------------------------|---------------------|--------------|--------------------|---------------|
| Tape | Bi-Laminate (Alum+Poly) | Beldfoil® | 100% | TC - Tinned Copper | 20 |

Outer Jacket Material

| Material | Nominal Diameter | Nominal Wall Thickness |
|--------------------------|------------------|------------------------|
| PVC - Polyvinyl Chloride | 0.524 in | 0.040 in |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR | Nominal Outer Shield DCR |
|-----------------------|--------------------------|
| 6.4 Ohm/1000ft | 7.1 Ohm/1000ft |

Capacitance

| Nom. Capacitance Conductor to Conductor | Nom. Capacitance Conductor to Other Conductor to Shield |
|---|---|
|---|---|

| | |
|-------------|----------|
| 26.75 pF/ft | 28 pF/ft |
|-------------|----------|

Current

| |
|--|
| Max. Recommended Current [A] |
| 4 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: | 157 lbs/1000ft |
| Max. Pull Tension: | 360 lbs |
| Min Bend Radius/Minor Axis: | 5.24 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): | 2020-01-28 |
| EU RoHS Compliance Date (yyyy-mm-dd): | 2020-01-28 |

Suitability

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

Flammability, LS0H, Toxicity Testing

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

Part Number

Variants

| Item # | Color | Length |
|----------|-------|----------|
| DEDN188F | Black | 2,000 ft |

History

| | |
|----------------------|---|
| Update and Revision: | Revision Number: 0.19 Revision Date: 09-22-2020 |
|----------------------|---|

© 2020 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 here in 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 "ASIS" 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 all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information 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. The 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.