Safe, intelligent electricity reliably delivered across thousands of feet

Designed in conjunction with VoltServer, the creator of Digital Electricity™️, Belden Digital Electricity (DE) Cables transmit “pulses” of DC power across long distances in a safe, efficient manner. Transmitters and receivers constantly monitor line conditions to make sure power pulses are properly received. If a problem is detected, power distribution stops immediately to protect people and equipment.

Hybrid DE Cables allow for the simultaneous transmission of DE power and data in the same cable. Hybrid cables can be coupled with our broad portfolio of fiber connectivity products for an end-to-end infrastructure to support distributed antenna systems (DAS).

Key Applications
- Distributed Antenna Systems (DAS)
- Passive Optical Networks (PON)
- Power over long distances
- Security (Cameras)
- Wireless Access Points (WAP)

Benefits at a Glance
- Supports sensing to detect cable problems
- Safe to touch without dangerous electrical shock
- Extended reach (thousands of feet) with mutual capacitance of <35 pF/ft to maintain power-transfer quality
- Ideal for indoor and indoor/outdoor applications
- Hybrid construction means fewer cables to stock and fewer cables to pull

Key Features
- Stranded design maintains cable flexibility
- 300V rating
- Unshielded or shielded options
- Tinned copper conductors improve cable longevity
- Breakout and distribution fiber constructions
- OM3, OM4 and OS2 type fiber

How does Digital Electricity work?

Digital Electricity Power Transmission
1. Long-distance/high-power transmission
2. Safe to touch with active line monitoring
3. Cost effective – smaller conductors running in telecommunications trays

* Digital Electricity is a trademark of VoltServer. For more information about Digital Electricity, visit voltservers.com
Ordering Information

Digital Electricity™ Copper Cables (Power Transmission)

Building a SmartPart Number
Please select from options below to build your SmartPart number.

<table>
<thead>
<tr>
<th>DE</th>
<th>I</th>
<th>P</th>
<th>16</th>
<th>8</th>
<th>U</th>
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<td>Rating/Type</td>
<td>AWG</td>
<td>Pair Count</td>
<td>Shielding</td>
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<td>Indoor/Outdoor</td>
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<td>Plenum</td>
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<td>Indoor/Outdoor or Waterblocked</td>
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**Example:**
- DEIP168U - Digital Electricity optimized copper cable, Indoor, Plenum-rated, 16 AWG, 8 Stranded Tinned-Copper Pairs, Unshielded, 2000 Ft Reel, Apple Green Jacket
- DEIN48U - Digital Electricity optimized copper cable, Indoor/Outdoor, CL4-rated, Sun Res, Wet Locations, 14 AWG, 8 Stranded Tinned-Copper Pairs, Unshielded, 2000 Ft Reel, Black Jacket
- DEWN164U - Digital Electricity optimized copper cable, Indoor/Outdoor with waterblocking tape, CM, CL4-rated, Sun Res, Wet Locations, 16AWG, 4 Stranded Tinned-Copper Pairs, Unshielded, 2000 FT Reel, Black Jacket

Accompany power delivery with data delivery over Belden fiber cables in the same installation.

FiberExpress Distribution Cables (Data Transmission)

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Riser versions and other fiber configurations and constructions available.

Combine power and data under the same cable jacket with Belden Hybrid Digital Electricity cables.

Hybrid Digital Electricity™ Cables (Power and Data Transmission)

Building a SmartPart Number

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<td>1 Fiber Distribution Tube (900 µm)</td>
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</tbody>
</table>

**Example:**
- DHIP162U4B02C - Digital Electricity optimized hybrid, Indoor, 16 AWG, 2 Stranded Tinned-Copper Pairs, OM4, Breakout, 2 Fiber Strands, 3.0 mm Subunit, Unshielded, Plenum Rated, Apple Green Jacket
- DHIP182UD06J - Digital Electricity optimized hybrid, Indoor, 18 AWG, 2 Stranded Tinned-Copper Pairs, OS2, Distribution, 6 Fiber Strands, 1 fiber distribution tube, Unshielded, Plenum Rated, Apple Green Jacket

* Plenum default jacket color is Apple Green. Waterblocked-Indoor/Outdoor default jacket color is black. Length specified at the time of order.
* LSZH cable is compliant to NFPA130 rating

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