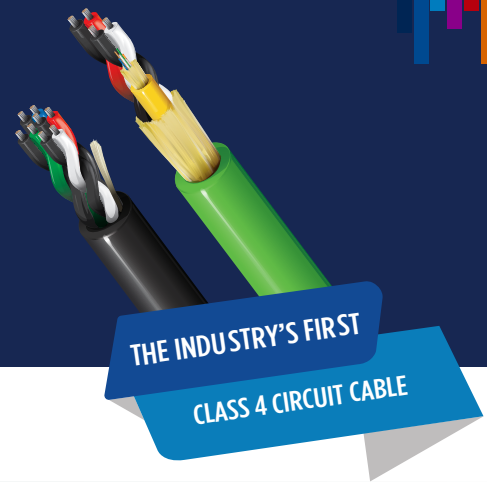


# FMPS Cables

PRODUCT BULLETIN 



## Safe, intelligent electricity reliably delivered across thousands of feet

Belden's Fault-Managed Power System (FMPS) Cables are the industry's first cables designed and UL listed for Class 4 cabling. They safely carry power at higher levels and across longer distances while reducing infrastructure costs. 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.

FMPS Cables can be installed by the same integrators and contractors that install Category and PoE cabling. The FMPS Cable portfolio includes a line of copper cables and our new line of hybrid cables which allow for the simultaneous transmission of power and data in the same cable. All FMPS cables can be coupled with our broad portfolio of fiber connectivity products for an end-to-end infrastructure to support distributed antenna systems (DAS).

## Benefits at a Glance

- Supports sensing to detect cable problems
- 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

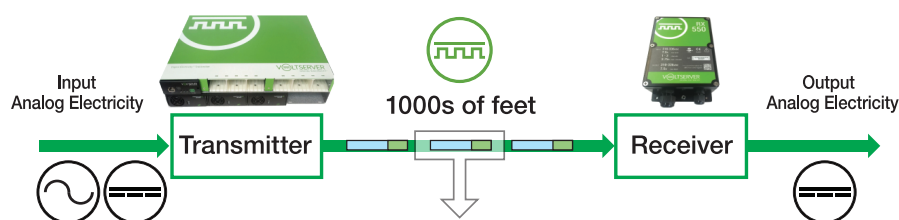
## Key Features

- 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

## Key Applications

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

## 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 [voltserver.com](http://voltserver.com)

# Ordering Information

## Digital Electricity™ Copper Cables (Power Transmission)

### Building a SmartPart Number

Please select from options below to build your SmartPart number.

DE	I	P	16	8	U
Fixed Letter Series	Application	Rating/Type	AWG	Pair Count <sup>1</sup>	Shielding
DE	Indoor	I Indoor	14 14	2 Pairs 2	Unshielded U
	Indoor/Outdoor	D Plenum P	16 16	4 Pairs 4	Foil Shield F
	Waterblocked-Indoor/Outdoor	W Indoor/Outdoor or Waterblocked	18 18	8 Pairs 8	
		General Purpose/Wet Locations N			

#### Example:


**DEIP168U** - Indoor, Plenum CL4P-rated, 16 AWG, 8 Stranded Tinned-Copper Pairs, Unshielded, 2000 Ft Reel, Apple Green Jacket

**DEDN148U** - Indoor/Outdoor, CL4-rated, Sun Res, Wet Locations, 14 AWG, 8 Stranded Tinned-Copper Pairs, Unshielded, 2000 Ft Reel, Black Jacket

**DEWN164U** - 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)

Belden Part Number	Fiber Count	Construction
OS2 Yellow	Non-Unitized - Plenum	
FISD002P9	2	
FISD006P9	6	
FISD012P9	12	

Riser versions and other fiber configurations and constructions available.

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

## Hybrid Digital Electricity™ Cables (Power and Data Transmission)

### Building a SmartPart Number

DH	I	P	16	2	U	4	B	02	C
FX Fiber Cable	Location	Rating/Type	Copper Type	Pair Count	Shielding	Fiber Type	Family	Fiber Count	Sub-Unit Type/Configuration
Hybrid DE DH	Indoor	I Plenum P	16 AWG 16	2 Pairs 2	Unshielded U	OM3 3	Breakout B	2 Fibers 02	Breakout
	Waterblocked-Indoor/Outdoor	W LSZH CMR-OF/FT4-ST1 L	18 AWG 18	4 Pairs 4		OM4 4	Distribution D	4 Fibers 04	2.0 mm Sub (1F x 900 μm) B
				8 Pairs 8		OS2 (G.657.A1) S		6 Fibers 06	3.0 mm Sub (1F x 900 μm) C
								12 Fibers 12	Distribution: Unitized
									1 Fiber Distribution Tube (900 μm) J

#### Example:

**DHIP162U4B02C** - Indoor, 16 AWG, 2 Stranded Tinned-Copper Pairs, OM4, Breakout, 2 Fiber Strands, 3.0 mm Subunit, Unshielded, Plenum CL4P-OF Rated, Apple Green Jacket

**DHIP182USD06J** - Indoor, 18 AWG, 2 Stranded Tinned-Copper Pairs, OS2, Distribution, 6 Fiber Strands, 1 fiber distribution tube, Unshielded, Plenum CL4P-OF 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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