

VoltServer® Digital Electricity®

Gen3 Class 4 FMPS Compatible Cable Table



SUMMARY

This document provides guidance for Digital Electricity compatible cables for VoltServer's Gen3 Fault Managed Power (FMPS) Class 4 deployments, based on the compatibility, ratings, and specifications of different cable types. The document explains how to use the VoltServer CL4 Cable Table, which lists the manufacturers, part numbers, pair counts, and minimum wire gauges for various deployment environments. **For Gen2E Class 2 LPS, refer to the VoltServer Gen2E Class 2 LPS cable table.**

PURPOSE

- ♦ The purpose of this document is to provide Designers, Integrators, Project Managers, and Installers with an easy reference for cabling solutions for VoltServer Remote Powering deployments.
- ♦ Cable ratings, color coding, and construction are extracted from the cable manufacturers datasheets.
- ♦ **All cables used with the VoltServer Gen3 FMPS must be certified to UL 1400-2 with a CL4 marking on the jacket.**
- ♦ If a required cable type is not in this Cable Table (i.e. ratings, pair count, etc.) please contact VoltServer Support, especially in discussions with cable manufacturers and suppliers to ensure suitability of proposed product(s).

HOW TO USE THE VOLTSERVER CABLE TABLE

- ♦ **Refer to deployment Venue Package to determine the minimum gauge and pair count required to each location. Contact your project manager or system designer to obtain the Venue Package .**
- ♦ Determine the rating required for each cable run. i.e. Plenum, Riser, Outdoor, mixed, etc.
- ♦ Refer to the appropriate page in this document for deployment rating.
- ♦ Lookup the required pairs for the remote location(s).
- ♦ Lookup the minimum conductor gauge (AWG) for the remote as stated in the Venue Package.
- ♦ Look up the Part Numbers for the desired manufacturer.

BEST PRACTICES

- ♦ The deployment environment must be considered to ensure a suitably rated cable type is ordered. i.e. DO NOT use Plenum or Riser rated cable outdoors.
- ♦ VoltServer recommends that additional conductor pairs be included in the initial builds to provide for future growth (Dark Copper).
- ♦ If required, to help standardize on a single cable type for a deployment where the Design Document or Venue Package indicates a number of different minimum gauges, the next larger gauge can be used. i.e. Increase 16AWG runs to 14 AWG runs to standardize on 14AWG.
- ♦ DO NOT reduce gauge from required minimum gauge i.e. from 16AWG to 18AWG - this will invalidate the VoltServer Design, may NOT be covered by warranty, and could violate local or national electrical code.
- ♦ If a cable run transitions from one rating area to another, i.e. from Plenum to Outdoor, a splice will be necessary adjacent to the transition.
- ♦ Refer to the *DE Best Practices Guide* for required methods and practices for intermediate splices.

NOTES

- ♦ Lowercase letters within a part number denotes that these parameters do not affect DE compatibility (i.e. jacket color, fiber count, etc.)

Customer Support:
support@voltserver.com
888-622-8658, Option 1

www.VoltServer.com

CABLE RATING LEGEND

Cable Rating Legend

CL4 = General Purpose Cable, Class 4, 450 V, Certified to UL 1400-2, May be used outdoors and/or direct burial.

CL3 = General Purpose Cable, Class 3, 300 V

CL4P, CMP, CL3P = All in-wall plenum & riser applications.

CL4R, CMR, CL3R = All in-wall and riser applications, not permitted in plenum spaces.

CM, CMG = In-wall rated; permitted in 1-2 family residential riser applications, or in riser with raceway/fireproof shaft, not permitted in plenum spaces.

CL4Z = Cables designated that are intended for outdoor use only and are not to be attached to, or used within a building structure. Permitted to also be designated "CL4P", "CL4R" or "CL4".

WET = Continuous wet locations, in conduit or ducts.

DB or DIR BUR = Direct burial cable, designed to be able to be buried directly beneath the ground without any added protection, piping, or sheathing.



Class 4 Indoor Plenum Cables - CL4P Rated
Required for Plenum Deployments. *Plenum rated cables (CL4P) may be used in risers.*

Manufacturer	Belden	Belden	Remece	Marmon	Corning	CommScope	Proterial							
Cable Family	FMPS Cables	FMPS Cables	PowerPipe™	COM-Link®	ActiFi®	Constellation®	Power+							
Features														
Pair Construction	Twisted Pair	Twisted Pair	Twisted Pair		Linear Lay	Twisted Pair	Twisted Pair							
Compliance Standards	CL4P, CMP, LS-PVC	CL4P, CMP, LS-PVC	CL4P, CMP	CL4P, CMP, LS-PVC	CL4P	CL4P, CMP	CL4P, LS-PVC, Sun Resistant							
Hybrid Fiber Available	Yes	Yes	Yes	Yes	Yes	Yes	Yes							
Country of Origin	Mexico	Mexico	USA	USA	USA	USA	USA							
Shielded	No	Yes	No	No	No	No	No							
Jacket Color	Green	Green	Natural/Green	Custom	Yellow	Yellow	Yellow							
AWG	Pairs	Part #	Part #	Part #	Part #	Part #	Part #	Part #						
18	1			DE1P18RRxxx	C4C-P00U02-18-01									
	2	DEIP182U	DEIP182F	DE2P18RRxxx	C4C-P00U02-18-02									
	3			DE3P18RRxxx	C4C-P00U02-18-03									
	4	DEIP184U	DEIP184F	DE4P18RRxxx	C4C-P00U02-18-04									
	6			DE6P18RRxxx	C4C-P00U02-18-06									
	8	DEIP188U	DEIP188F	DE8P18RRxxx	C4C-P00U02-18-08									
	12				C4C-P00U02-18-12									
16	1			DE1P16RRxxx	C4C-P00U02-16-01			42564-4						
	2	DEIP162U	DEIP162F	DE2P16RRxxx	C4C-P00U02-16-02			42577-8						
	3			DE3P16RRxxx	C4C-P00U02-16-03			42563-12						
	4	DEIP164U	DEIP164F	DE4P16RRxxx	C4C-P00U02-16-04		P-016-HY-8G-F30YL/4X16AWG/CTX	42587-28						
	6			DE6P16RRxxx	C4C-P00U02-16-06	xxxZT8-61N01N20								
	8	DEIP168U	DEIP168F	DE8P16RRxxx	C4C-P00U02-16-08	xxxZT8-M1N01N20								
	12				C4C-P00U02-16-12									
14	1			DE1P14RRxxx	C4C-P00U02-14-01			42576-4						
	2	DEIP142U	DEIP142F	DE2P14RRxxx	C4C-P00U02-14-02			42581-8						
	3			DE3P14RRxxx	C4C-P00U02-14-03			42583-12						
	4	DEIP144U	DEIP144F	DE4P14RRxxx	C4C-P00U02-14-04									
	6			DE6P14RRxxx	C4C-P00U02-14-06									
	8	DEIP148U	DEIP148F	DE8P14RRxxx	C4C-P00U02-14-08									
	12				C4C-P00U02-14-12									
12	1				C4C-P00U02-12-01									
	2				C4C-P00U02-12-02									
	3				C4C-P00U02-12-03									
	4				C4C-P00U02-12-04									
	6				C4C-P00U02-12-06									
	8				C4C-P00U02-12-08									
	12				C4C-P00U02-12-12									
Wire Color Codes														
Pair #1	Black/Red	Black/Red	Black/Red	Black/Red	Telcordia		Red/White	Black/Red						
Pair #2	Black/White	Black/White	Black/White	Black/White			Black/White	Black/White						
Pair #3	Black/Green	Black/Green	Black/Green	Black/Green			Blue/White	Black/Green						
Pair #4	Black/Blue	Black/Blue	Black/Blue	Black/Blue			Brown/White	Black/Blue						
Pair #5	Black/Yellow	Black/Yellow	Black/Yellow	Black/Yellow										
Pair #6	Black/Brown	Black/Brown	Black/Brown	Black/Brown										
Pair #7	Black/Orange	Black/Orange	Black/Orange	Black/Orange										
Pair #8	Red/White	Red/White	Red/White	Red/White										
Pair #9														
Pair #10														
Pair #11														
Pair #12														
Pair #13														
Pair #4														
Pair #15														
Pair #16														



Class 4 Indoor Riser Cables - Must be CL4R rated
*Riser rated cables (CL4R) are **NOT** permitted in plenum spaces. **NOT** rated for wet locations unless stated.*

Manufacturer	Southwire	Southwire	Belden	Belden	Marmon	Marmon	Corning							
Cable Family	CL4SS®	CL4SS®	FMPS Cables	FMPS Cables	COM-Link®	COM-Link®	ActiFi®							
Features														
Pair Construction	Twisted Pair	Twisted Pair	Twisted Pair	Twisted Pair	Twisted Pair	Twisted Pair	Linear Lay							
Compliance Standards	CL4Z, CMG, FT4 LS-PVC, Wet Locations	CL4Z, CMG, FT4 LS-PVC, Wet Locations	CL4Z, CMG, Wet Locations, Sun Resistant	CL4Z, CMG, Wet Locations, Sun Resistant	CL4R, CMG, CMR, FT4 Wet Locations, Sun Resistant	CL4R, CMG, CMR, FT4 Wet Locations, Sun Resistant	CL4R							
Hybrid Fiber Available	No	No	Optional	Yes	Yes	Yes	Yes							
Country of Origin	USA	USA		USA	USA	USA	USA							
Shielded	No	Yes	No	Yes	No	Yes	No							
Jacket Color	Green/Black/White	Green/Black/White	Black	Black	Black	Black	Yellow							
AWG	Pairs	Part #	Part #	Part #	Part #	Part #	Part #	Part #						
18	1					C4C-R00U01-18-01SW	C4C-R00F01-18-01SW							
	2	CL4Z182N0605x	CL4Z182S0608	DEDN182U	DEDN182F	C4C-R00U01-18-02SW	C4C-R00F01-18-02SW							
	3					C4C-R00U01-18-03SW	C4C-R00F01-18-03SW							
	4	CL4Z184N0605x	CL4Z184S0608	DEDN184U	DEDN184F	C4C-R00U01-18-04SW	C4C-R00F01-18-04SW							
	6					C4C-R00U01-18-06SW	C4C-R00F01-18-06SW							
	8	CL4Z188N0605x	CL4Z188S0608	DEDN188U	DEDN188F	C4C-R00U01-18-08SW	C4C-R00F01-18-08SW							
	12					C4C-R00U01-18-12SW	C4C-R00F01-18-12SW							
16	1					C4C-R00U01-16-01SW	C4C-R00F01-16-01SW							
	2	CL4Z162N0605x	CL4Z162S0608	DEDN162U	DEDN162F	C4C-R00U01-16-02SW	C4C-R00F01-16-02SW							
	3					C4C-R00U01-16-03SW	C4C-R00F01-16-03SW							
	4	CL4Z164N0605x	CL4Z164S0608	DEDN164U	DEDN164F	C4C-R00U01-16-04SW	C4C-R00F01-16-04SW							
	6					C4C-R00U01-16-06SW	C4C-R00F01-16-06SW	xxxZTF-61N01N20						
	8	CL4Z168N0605x	CL4Z168S0608	DEDN168U	DEDN168F	C4C-R00U01-16-08SW	C4C-R00F01-16-08SW	xxxZTF-M1N01N20						
	12					C4C-R00U01-16-12SW	C4C-R00F01-16-12SW							
14	1					C4C-R00U01-14-01SW	C4C-R00F01-14-01SW							
	2			DEDN142U	DEDN142F	C4C-R00U01-14-02SW	C4C-R00F01-14-02SW							
	3					C4C-R00U01-14-03SW	C4C-R00F01-14-03SW							
	4			DEDN144U	DEDN144F	C4C-R00U01-14-04SW	C4C-R00F01-14-04SW							
	6					C4C-R00U01-14-06SW	C4C-R00F01-14-06SW							
	8			DEDN148U	DEDN148F	C4C-R00U01-14-08SW	C4C-R00F01-14-08SW							
	12					C4C-R00U01-14-12SW	C4C-R00F01-14-12SW							
12	1					C4C-R00U01-12-01SW	C4C-R00F01-12-01SW							
	2					C4C-R00U01-12-02SW	C4C-R00F01-12-02SW							
	3					C4C-R00U01-12-03SW	C4C-R00F01-12-03SW							
	4					C4C-R00U01-12-04SW	C4C-R00F01-12-04SW							
	6					C4C-R00U01-12-06SW	C4C-R00F01-12-06SW							
	8					C4C-R00U01-12-08SW	C4C-R00F01-12-08SW							
	12					C4C-R00U01-12-12SW	C4C-R00F01-12-12SW							
Wire Color Codes														
Pair #1	Black/Red	Black/Red	Black/Red	Black/Red	Black/Red	Black/Red	Black/Red	Telcordia						
Pair #2	Black/White	Black/White	Black/White	Black/White	Black/White	Black/White	Black/White							
Pair #3	Black/Green	Black/Green	Black/Green	Black/Green	Black/Green	Black/Green	Black/Green							
Pair #4	Black/Blue	Black/Blue	Black/Blue	Black/Blue	Black/Blue	Black/Blue	Black/Blue							
Pair #5	Black/Yellow	Black/Yellow	Black/Yellow	Black/Yellow	Black/Yellow	Black/Yellow	Black/Yellow							
Pair #6	Black/Brown	Black/Brown	Black/Brown	Black/Brown	Black/Brown	Black/Brown	Black/Brown							
Pair #7	Black/Orange	Black/Orange	Black/Orange	Black/Orange	Black/Orange	Black/Orange	Black/Orange							
Pair #8	Black/White	Black/White	Red/White	Red/White	Red/White	Red/White	Red/White							
Pair #9						Red/Green	Red/Green							
Pair #10						Red/Blue	Red/Blue							
Pair #11						Red/Yellow	Red/Yellow							
Pair #12						Red/Brown	Red/Brown							
Pair #13						Red/Orange	Red/Orange							
Pair #14						White/Green	White/Green							
Pair #15						White/Blue	White/Blue							
Pair #16						White/Yellow	White/Yellow							

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Class 4 - Wet Location Cables - Must be CL4 rated Rated for wet locations and outdoor ducts. Not direct burial unless stated.															
Manufacturer		Southwire	Southwire	Belden	Belden	Marmon	Marmon								
Cable Family		CL4SS®	CL4SS®	FMPS Cables	FMPS Cables	COM-Link®	COM-Link®								
Features															
Pair Construction		Twisted Pair	Twisted Pair	Twisted Pair	Twisted Pair	Twisted Pair	Twisted Pair								
Compliance Standards		CL4Z, CMG, LS-PVC, Wet Locations	CL4Z, CMG, LS-PVC, Wet Locations	CL4, CMG, Wet Locations, Sun Resistant	CL4, CMG, Wet Locations, Sun Resistant	CL4, CMG, Wet Location, Sun Resistant	CL4, CMG, Wet Location, Sun Resistant								
Hybrid Fiber Available		No	No	Yes	Yes	Yes	Yes								
Country of Origin		USA	USA	Mexico	Mexico	USA	USA								
Shielded		No	Yes	No	Yes	No	Yes								
Jacket Color		Green/Black/White	Green/Black/White	Black	Black	Black	Black								
AWG	Pairs	Part #	Part #	Part #	Part #	Part #	Part #								
18	1					C4C-RFT40U01-18-1SR/W-0	C4C-RFT40F01-18-1SR/W-0								
	2	CL4Z182N060x	CL4Z182S060x	DEDN182U	DEDN182F	C4C-RFT40U01-18-2SR/W-0	C4C-RFT40F01-18-2SR/W-0								
	3					C4C-RFT40U01-18-3SR/W-0	C4C-RFT40F01-18-3SR/W-0								
	4	CL4Z184N060x	CL4Z184S060x	DEDN184U	DEDN184F	C4C-RFT40U01-18-4SR/W-0	C4C-RFT40F01-18-4SR/W-0								
	6					C4C-RFT40U01-18-6SR/W-0	C4C-RFT40F01-18-6SR/W-0								
	8	CL4Z188N060x	CL4Z188S060x	DEDN188U	DEDN188F	C4C-RFT40U01-18-8SR/W-0	C4C-RFT40F01-18-8SR/W-0								
	12														
	16														
16	1					C4C-RFT40U01-16-1SR/W-0	C4C-RFT40F01-16-1SR/W-0								
	2	CL4Z162N060x	CL4Z162S060x	DEDN162U	DEDN162F	C4C-RFT40U01-16-2SR/W-0	C4C-RFT40F01-16-2SR/W-0								
	3					C4C-RFT40U01-16-3SR/W-0	C4C-RFT40F01-16-3SR/W-0								
	4	CL4Z164N060x	CL4Z164S060x	DEDN164U	DEDN164F	C4C-RFT40U01-16-4SR/W-0	C4C-RFT40F01-16-4SR/W-0								
	6					C4C-RFT40U01-16-6SR/W-0	C4C-RFT40F01-16-6SR/W-0								
	8	CL4Z168N060x	CL4Z168S060x	DEDN168U	DEDN168F	C4C-RFT40U01-16-8SR/W-0	C4C-RFT40F01-16-8SR/W-0								
	12														
	16														
14	1					C4C-RFT40U01-14-1SR/W-0	C4C-RFT40F01-14-1SR/W-0								
	2	CL4Z142N060x	CL4Z142S060x	DEDN142U	DEDN142F	C4C-RFT40U01-14-2SR/W-0	C4C-RFT40F01-14-2SR/W-0								
	3					C4C-RFT40U01-14-3SR/W-0	C4C-RFT40F01-14-3SR/W-0								
	4	CL4Z144N060x	CL4Z144S060x	DEDN144U	DEDN144F	C4C-RFT40U01-14-4SR/W-0	C4C-RFT40F01-14-4SR/W-0								
	6					C4C-RFT40U01-14-6SR/W-0	C4C-RFT40F01-14-6SR/W-0								
	8	CL4Z148N060x	CL4Z148S060x	DEDN148U	DEDN148F	C4C-RFT40U01-14-8SR/W-0	C4C-RFT40F01-14-8SR/W-0								
	12														
	16														
12	1					C4C-RFT40U01-12-1SR/W-0	C4C-RFT40F01-12-1SR/W-0								
	2					C4C-RFT40U01-12-2SR/W-0	C4C-RFT40F01-12-2SR/W-0								
	3					C4C-RFT40U01-12-3SR/W-0	C4C-RFT40F01-12-3SR/W-0								
	4					C4C-RFT40U01-12-4SR/W-0	C4C-RFT40F01-12-4SR/W-0								
	6					C4C-RFT40U01-12-6SR/W-0	C4C-RFT40F01-12-6SR/W-0								
	8					C4C-RFT40U01-12-8SR/W-0	C4C-RFT40F01-12-8SR/W-0								
	12														
	16														
Wire Color Codes															
Pair #1		Black/Red	Black/Red	Black/Red	Black/Red	Black/Red	Black/Red								
Pair #2		Black/White	Black/White	Black/White	Black/White	Black/White	Black/White								
Pair #3		Black/Green	Black/Green	Black/Green	Black/Green	Black/Green	Black/Green								
Pair #4		Black/Blue	Black/Blue	Black/Blue	Black/Blue	Black/Blue	Black/Blue								
Pair #5		Black/Yellow	Black/Yellow	Black/Yellow	Black/Yellow	Black/Yellow	Black/Yellow								
Pair #6		Black/Brown	Black/Brown	Black/Brown	Black/Brown	Black/Brown	Black/Brown								
Pair #7		Black/Orange	Black/Orange	Black/Orange	Black/Orange	Black/Orange	Black/Orange								
Pair #8		Black/White	Black/White	Red/White	Red/White	Red/White	Red/White								
Pair #9															
Pair #10															
Pair #11															
Pair #12															
Pair #13															
Pair #4															
Pair #15															
Pair #16															

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Class 4 - Wet Location Cables - Must be CL4 & Wet Location rated
Rated for wet locations and outdoor ducts. Not direct burial unless stated.

Manufacturer	Southwire	Southwire	Belden	Belden	Marmon	Marmon								
Cable Family	CL4SS®	CL4SS®	FMPS Cables	FMPS Cables	COM-Link®	COM-Link®								
Features														
Pair Construction	Twisted Pair	Twisted Pair	Twisted Pair	Twisted Pair	Twisted Pair	Twisted Pair								
Compliance Standards	CL4Z, CMG, LS-PVC, Wet Locations	CL4Z, CMG, LS-PVC, Wet Locations	CL4, CMG, Wet Locations, Sun Resistant	CL4, CMG, Wet Locations, Sun Resistant	CL4, CMG, FT4, Wet Location, Sun Resistant	CL4, CMG, FT4, Wet Location, Sun Resistant								
Hybrid Fiber Available	No	No	Yes	Yes	Yes	Yes								
Country of Origin	USA	USA	Mexico	Mexico	USA	USA								
Shielded	No	Yes	No	Yes	No	Yes								
Jacket Color	Green/Black/White	Green/Black/White	Black	Black	Black	Black								
AWG	Pairs	Part #	Part #	Part #	Part #	Part #	Part #							
18	1					C4C-RFT40U01-18-1SR/W-0	C4C-RFT40F01-18-1SR/W-0							
	2	CL4Z182N060x	CL4Z182S060x	DEDN182U	DEDN182F	C4C-RFT40U01-18-2SR/W-0	C4C-RFT40F01-18-2SR/W-0							
	3					C4C-RFT40U01-18-3SR/W-0	C4C-RFT40F01-18-3SR/W-0							
	4	CL4Z184N060x	CL4Z184S060x	DEDN184U	DEDN184F	C4C-RFT40U01-18-4SR/W-0	C4C-RFT40F01-18-4SR/W-0							
	6					C4C-RFT40U01-18-6SR/W-0	C4C-RFT40F01-18-6SR/W-0							
	8	CL4Z188N060x	CL4Z188S060x	DEDN188U	DEDN188F	C4C-RFT40U01-18-8SR/W-0	C4C-RFT40F01-18-8SR/W-0							
	12													
16	1					C4C-RFT40U01-16-1SR/W-0	C4C-RFT40F01-16-1SR/W-0							
	2	CL4Z162N060x	CL4Z162S060x	DEDN162U	DEDN162F	C4C-RFT40U01-16-2SR/W-0	C4C-RFT40F01-16-2SR/W-0							
	3					C4C-RFT40U01-16-3SR/W-0	C4C-RFT40F01-16-3SR/W-0							
	4	CL4Z164N060x	CL4Z164S060x	DEDN164U	DEDN164F	C4C-RFT40U01-16-4SR/W-0	C4C-RFT40F01-16-4SR/W-0							
	6					C4C-RFT40U01-16-6SR/W-0	C4C-RFT40F01-16-6SR/W-0							
	8	CL4Z168N060x	CL4Z168S060x	DEDN168U	DEDN168F	C4C-RFT40U01-16-8SR/W-0	C4C-RFT40F01-16-8SR/W-0							
	12													
14	1					C4C-RFT40U01-14-1SR/W-0	C4C-RFT40F01-14-1SR/W-0							
	2	CL4Z142N060x	CL4Z142S060x	DEDN142U	DEDN142F	C4C-RFT40U01-14-2SR/W-0	C4C-RFT40F01-14-2SR/W-0							
	3					C4C-RFT40U01-14-3SR/W-0	C4C-RFT40F01-14-3SR/W-0							
	4	CL4Z144N060x	CL4Z144S060x	DEDN144U	DEDN144F	C4C-RFT40U01-14-4SR/W-0	C4C-RFT40F01-14-4SR/W-0							
	6					C4C-RFT40U01-14-6SR/W-0	C4C-RFT40F01-14-6SR/W-0							
	8	CL4Z148N060x	CL4Z148S060x	DEDN148U	DEDN148F	C4C-RFT40U01-14-8SR/W-0	C4C-RFT40F01-14-8SR/W-0							
	12													
12	1					C4C-RFT40U01-12-1SR/W-0	C4C-RFT40F01-12-1SR/W-0							
	2					C4C-RFT40U01-12-2SR/W-0	C4C-RFT40F01-12-2SR/W-0							
	3					C4C-RFT40U01-12-3SR/W-0	C4C-RFT40F01-12-3SR/W-0							
	4					C4C-RFT40U01-12-4SR/W-0	C4C-RFT40F01-12-4SR/W-0							
	6					C4C-RFT40U01-12-6SR/W-0	C4C-RFT40F01-12-6SR/W-0							
	8					C4C-RFT40U01-12-8SR/W-0	C4C-RFT40F01-12-8SR/W-0							
	12													
Wire Color Codes														
Pair #1	Black/Red	Black/Red	Black/Red	Black/Red	Black/Red	Black/Red	Black/Red							
Pair #2	Black/White	Black/White	Black/White	Black/White	Black/White	Black/White	Black/White							
Pair #3	Black/Green	Black/Green	Black/Green	Black/Green	Black/Green	Black/Green	Black/Green							
Pair #4	Black/Blue	Black/Blue	Black/Blue	Black/Blue	Black/Blue	Black/Blue	Black/Blue							
Pair #5	Black/Yellow	Black/Yellow	Black/Yellow	Black/Yellow	Black/Yellow	Black/Yellow	Black/Yellow							
Pair #6	Black/Brown	Black/Brown	Black/Brown	Black/Brown	Black/Brown	Black/Brown	Black/Brown							
Pair #7	Black/Orange	Black/Orange	Black/Orange	Black/Orange	Black/Orange	Black/Orange	Black/Orange							
Pair #8	Black/White	Black/White	Red/White	Red/White	Red/White	Red/White	Red/White							
Pair #9														
Pair #10														
Pair #11														
Pair #12														
Pair #13														
Pair #4														
Pair #15														
Pair #16														

VoltServer® Digital Electricity®
Gen3 Class 4 FMPS Compatible Cable Table

VOLTSERVER® DIGITAL ELECTRICITY®		Class 4 Direct Burial Cables - must be CL4 rated Designed to be able to be buried directly beneath the ground without any added protection, piping, or sheathing.													
Manufacturer		Remee	Remee	EUPEN	Proterial	Boldyn									
Cable Family		PowerPipe™	PowerPipe™												
Features															
Pair Construction		Twisted Pair	Twisted Pair	Twisted Pair	Twisted Pair	Twisted Pair									
Compliance Standards		CL4Z, Direct Burial, Sun Resistant	CL4Z, Direct Burial, Sun Resistant	CL4, Wet Locations Direct Burial, Sun Resistant	CL4, Wet Locations Direct Burial, Sun Resistant	CL4, Wet Locations Direct Burial, Sun Resistant									
Hybrid Fiber Available		Yes	Yes	No	No	No									
Country of Origin		USA	USA												
Shielded		No	Yes	No	No	No									
Jacket Color		Green	Green	Black	Black	Black									
AWG	Pairs	Part #	Part #	Part #	Part #	Part #									
18	1	DE1P18OSPxxx	DE1P18OSPxxx												
	2	DE2P18OSPxxx	DE2P18OSPxxx												
	3	DE3P18OSPxxx	DE3P18OSPxxx												
	4	DE4P18OSPxxx	DE4P18OSPxxx												
	6	DE6P18OSPxxx	DE6P18OSPxxx												
	8	DE8P18OSPxxx	DE8P18OSPxxx												
	12														
16	1	DE1P16OSPxxx	DE1P16OSPxxx												
	2	DE2P16OSPxxx	DE2P16OSPxxx												
	3	DE3P16OSPxxx	DE3P16OSPxxx												
	4	DE4P16OSPxxx	DE4P16OSPxxx												
	6	DE6P16OSPxxx	DE6P16OSPxxx												
	8	DE8P16OSPxxx	DE8P16OSPxxx	HP16X16-CL4-B	WPN01613783	BN16X16-CL4-B									
	12														
14	1	DE1P14OSPxxx	DE1P14OSPxxx												
	2	DE2P14OSPxxx	DE2P14OSPxxx												
	3	DE3P14OSPxxx	DE3P14OSPxxx												
	4	DE4P14OSPxxx	DE4P14OSPxxx												
	6	DE6P14OSPxxx	DE6P14OSPxxx												
	8	DE8P14OSPxxx	DE8P14OSPxxx												
	12	DE8P14OSPxxx	DE8P14OSPxxx												
12	1	DE1P12OSPxxx	DE1P12ISOSPxxx												
	2	DE2P12OSPxxx	DE2P12ISOSPxxx												
	3	DE3P12OSPxxx	DE3P12ISOSPxxx												
	4	DE4P12OSPxxx	DE4P12ISOSPxxx												
	6	DE6P12OSPxxx	DE6P12ISOSPxxx												
	8	DE8P12OSPxxx	DE8P12ISOSPxxx												
	12														
Wire Color Codes															
Pair #1		Black/Red	Black/Red	Black/Red	Black/Red	Black/Red									
Pair #2		Black/White	Black/White	Black/White	Black/White	Black/White									
Pair #3		Black/Green	Black/Green	Black/Green	Black/Green	Black/Green									
Pair #4		Black/Blue	Black/Blue	Black/Blue	Black/Blue	Black/Blue									
Pair #5		Black/Yellow	Black/Yellow	Black/Yellow	Black/Yellow	Black/Yellow									
Pair #6		Black/Brown	Black/Brown	Black/Brown	Black/Brown	Black/Brown									
Pair #7		Black/Orange	Black/Orange	Black/Orange	Black/Orange	Black/Orange									
Pair #8		Red/White	Red/White	Red/White	Red/White	Red/White									
Pair #9															
Pair #10															
Pair #11															
Pair #12															
Pair #13															
Pair #4															
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Pair #16															

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Gen3 Class 4 FMPS Compatible Cable Table

Cable Manufacturer Website	How to buy/contact	Product info
Belden	Belden - Find-A-Distributor	Belden FMPS Cables
CommScope	CommScope - How to Buy	CommScope - Constellation Plenum Hybrid Class 4 Cable
Corning	Corning Authorized Distributors	Corning - Actifi
EUPEN	EUPEN - Contact Us	
Marmon	Marmon - Contact Us	Marmon - COM-link cables
Proterial	Proterial - Sales Offices	Proterial - Cable Systems
Remee	Remee - Request for Information	Remee - Activate Powered Cable Solutions
Southwire	Southwire - Where-to-Buy	Southwire CL4SS™ Class 4 Non-Shielded Gen. Purpose Outdoor
		Southwire CL4SS™ Class 4 Shielded Outdoor / General Purpose