

PRODUCT HIGHLIGHTS

- RoHS 3 compliant
- FMPS (fault managed power system) compliant
- Made in U.S.A.
- Combines data and power in a single cable for efficient installations
- 450V Class 4 rating offers a safer alternative to traditional 300V or 600V solutions.
- Enables longer cable runs with smaller AWG power wires, ideal for edge devices.
- Aligns with upcoming 2026 NEC (National Electric Code) revisions for Limited Energy solutions.

OPTIONS

- UV Resistant (Yellow & Black)
- 2 - 12 Fiber Configurations, Single Mode*
- 1 - 8 pair DC Power (16-12 AWG)

BENEFITS

- Approved Class 4 with all required UL markings including unique identification as evidence of full compliance.
- FMPS enhance safety by automatically shutting down in the event of a fault, protecting both personnel and equipment.
- Supports future-ready Limited Energy applications under NEC (2026) Article 726
- Enables longer cable runs and higher voltage delivery compared to traditional PoE or SELV systems.
- Conduit not required leading to lower infrastructure costs.
- Compatible with all FMPS Equipment as well as being backwards compatible for Class 2 and Class 3 applications.
- Hybrid Fiber & Power Wires are ideal for long-distance applications requiring high-speed data performance combined with safe, efficient power distribution.

STANDARDS

- UL 1400-2 Outline of Investigation For Fault Managed Power Systems
- ICEA S-120-742 - Hybrid Optical & Power Cable for use in Limited Power Circuits
- Additional Standard: ICEA S-83-596 Indoor Optical Cable

TEMPERATURE RANGE

- **Storage Temperature**
-20°C to +75°C
(-4°F to +167°F)
- **Installation Temperature**
0°C to +60°C
(+32°F to +140°F)
- **Operation Temperature**
-20°C to +75°C
(-4°F to +167°F)

CL4P-OF - 16 AWG with OS2 900um Tight-Buffer

Part Number	# of Pairs	# of Fibers	Calculated Cable O.D.	Weight LBS per K	Jacket	Bend Radius
			inches/mm	lbs/1000ft		
42564-4	1	2	0.284 / 7.21	49.6	LSPVC (Yellow)	2.84" (10x)
42577-8	2	4	0.389 / 9.88	85.6		4.67" (12x)
42563-12	3	6	0.407/ 10.33	103.2		6.11" (15x)
42587-28	8	12	0.610 / 15.50	236.2		9.15" (15x)

CL4P-OF - 14 AWG with OS2 900um Tight-Buffer

Part Number	# of Pairs	# of Fibers	Calculated Cable O.D.	Weight LBS per K	Jacket	Bend Radius
			inches/mm	lbs/1000ft		
42576-4	1	2	0.305 / 7.75	63.3	LSPVC (Yellow)	3.05" (10x)
42581-8	2	4	0.443 / 11.25	115.2		5.32" (12x)
42583-12	3	6	0.471 / 11.96	148.6		7.07" (15x)

CL4P-OF - 12 AWG with OS2 900um Tight-Buffer

Part Number	# of Pairs	# of Fibers	Calculated Cable O.D.	Weight LBS per K	Jacket	Bend Radius
			inches/mm	lbs/1000ft		
42575-4	1	2	0.328 / 8.33	80.8	LSPVC (Yellow)	3.28" (10x)
42580-8	2	4	0.506 / 12.85	155.5		6.07" (12x)
42582-12	3	6	0.530 / 13.46	204.4		7.95" (15x)

Standard Jacket Color
TIA 598-D



Contact Proterial for non-stock jacket colors



Proterial Cable America, Inc. is continuously improving the performance of our products and the accuracy of the information provided. Due to this, we reserve the right to modify, revise, correct, or change products without notice. Thank you for your understanding.

*Other fiber types available, contact us for more info.



CL4P-OF - 16 AWG with OS2 900um Tight-Buffer

Part Number	Fiber Type	Fiber Comp. OD	Pulling Tension	Compression	Mutual Capacitance	Voltage Rating			
		inches/mm							
42564-4	SM G657 A2 900um Single-Unit	0.140 / 3.56	Install: 660 N / 150 lbf	100 N/cm	< 40 pF / ft.	450 Vrms			
42577-8		0.150 / 3.81							
42563-12		0.164 / 4.17	Operation: 200 N / 45 lbf						
42587-28		0.234 / 5.94							

CL4P-OF - 14 AWG with OS2 900um Tight-Buffer

Part Number	Fiber Type	Fiber Comp. OD	Pulling Tension	Compression	Mutual Capacitance	Voltage Rating
		inches/mm				
42576-4	SM G657 A2 900um Single-Unit	0.140 / 3.56	Install: 660 N / 150 lbf	100 N/cm	< 40 pF / ft.	450 Vrms
42581-8		0.150 / 3.81				
42583-12		0.164 / 4.17	Operation: 200 N / 45 lbf			

CL4P-OF - 12 AWG with OS2 900um Tight-Buffer

Part Number	Fiber Type	Fiber Comp. OD	Pulling Tension	Compression	Mutual Capacitance	Voltage Rating
		inches/mm				
42575-4	SM G657 A2 900um Single-Unit	0.140 / 3.56	Install: 660 N / 150 lbf	100 N/cm	< 40 pF / ft.	450 Vrms
42580-8		0.150 / 3.81				
42582-12		0.164 / 4.17	Operation: 200 N / 45 lbf			

