Southwire® CL4SS™ Class 4 Shielded Cable LS-PVC CL4P/CMP

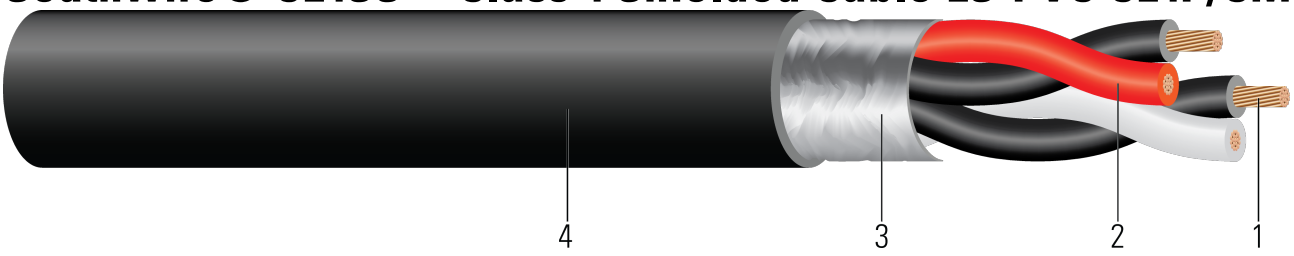

Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Class B or C stranded soft-drawn bare copper per ASTM B3 and B8
2. **Insulation:** Twisted pair(s) with premium grade, lead-free, 90°C rated, flame retardant, Polyvinyl Chloride (PVC). Color code: Black/White, Black/Red with alpha-numeric print (1-ONE, 2-TWO)
3. **Shield** Aluminum foil shield
4. **Jacket:** Lead-free, 90°C rated, flame retardant, LS, Polyvinyl Chloride (PVC). See Table 3 for jacket colors.

APPLICATIONS AND FEATURES:

Intended for use in Fault Managed Power Systems (FMPS), remote powering, indoor Class 4 circuits per 2023 National Electrical Code (NEC) article 726. For use, primarily, in Agriculture, Intelligent Buildings, and Wireless Densification. The power source (transmitter) for Class 4 circuits shall be supplied from a power source that has a voltage output of 450 volts (peak or DC) or less.

Ratings:

- Normal operating temperature: 90°C
- Temperature Range: -30°C to 90°C
- Cold bend: -30°C
- FT6 Horizontal Flame & Smoke Test

SPECIFICATIONS:

- Certified to Southwire's UL E352061
- ASTM B3 Soft or Annealed Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- UL 1400-2 Fault-Managed Power Systems - Part 2: Requirements for Cables

SAMPLE PRINT LEGEND:

{SQFTG} SOUTHWIRE® CL4SS P/N CL4P1XXS06XX -- XX AWG X PAIR SHIELDED E537761 (UL) CL4P–FMP (2.0A) 90C OR CMP C(UL)US 90C FT6 -- MADE IN USA ROHS-2 COMPLIANT

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Table 1 – Weights and Measurements

Stock Number	Cond. Size	Number of Pairs	Diameter Over Conductor	Insul. Thickness	Jacket Thickness	Approx. OD	Approx. Weight	Min Bending Radius	DC Resistance @ 25°C
	AWG/ Kcmil	pair	inch	mil	mil	inch	lb/1000ft	inch	Ω/1000ft
CL4P182S06	18	2	0.046	10	15	0.248	37	3.0	6.669
CL4P184S06	18	4	0.046	10	15	0.294	66	3.5	6.669
CL4P186S06	18	6	0.046	10	15	0.360	94	4.3	6.669
CL4P188S06	18	8	0.046	10	15	0.394	121	4.7	6.669
CL4P162S06	16	2	0.058	10	15	0.287	52	3.4	4.181
CL4P164S06	16	4	0.058	10	15	0.341	94	4.1	4.181
CL4P166S06	16	6	0.058	10	15	0.419	136	5.0	4.181
CL4P168S06	16	8	0.058	10	15	0.459	176	5.5	4.181
CL4P142S06	14	2	0.073	10	15	0.338	75	4.1	2.631
CL4P144S06	14	4	0.073	10	15	0.400	137	4.8	2.631
CL4P146S06	14	6	0.073	10	15	0.493	201	5.9	2.631
CL4P148S06	14	8	0.073	10	15	0.540	262	6.5	2.631

All dimensions are nominal and subject to normal manufacturing tolerances
◊ Cable marked with this symbol is a standard stock item
• TBA stock codes are estimations only and actual product may vary. Please wait until a stock code is assigned to purchase connectors and/or fittings.

Table 2 – Weights and Measurements (Metric)

Stock Number	Cond. Size	Number of Pairs	Diameter Over Conductor	Insul. Thickness	Jacket Thickness	Approx. OD	Approx. Weight	Min Bending Radius	DC Resistance @ 25°C
	AWG/ Kcmil	pair	inch	mm	mm	mm	lb/km	mm	Ω/km
CL4P182S06	18	2	0.046	0.25	0.38	6.30	55	76.20	21.88
CL4P184S06	18	4	0.046	0.25	0.38	7.47	98	88.90	21.88
CL4P186S06	18	6	0.046	0.25	0.38	9.14	140	109.22	21.88
CL4P188S06	18	8	0.046	0.25	0.38	10.01	180	119.38	21.88
CL4P162S06	16	2	0.058	0.25	0.38	7.29	77	86.36	13.72
CL4P164S06	16	4	0.058	0.25	0.38	8.66	140	104.14	13.72
CL4P166S06	16	6	0.058	0.25	0.38	10.64	202	127.00	13.72
CL4P168S06	16	8	0.058	0.25	0.38	11.66	262	139.70	13.72
CL4P142S06	14	2	0.073	0.25	0.38	8.59	112	104.14	8.63
CL4P144S06	14	4	0.073	0.25	0.38	10.16	204	121.92	8.63
CL4P146S06	14	6	0.073	0.25	0.38	12.52	299	149.86	8.63
CL4P148S06	14	8	0.073	0.25	0.38	13.72	390	165.10	8.63

Typical Electrical Specifications for Each Pair

Size	Capacitance
AWG	pF/ft
18	<30
16	<30
14	<30

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Table 3 - Stock Code by Jacket Color

Conductor Size	Number of Pairs	Jacket Color	
AWG	num	Black	White
18	2	CL4P182S0608	CL4P182S0601
18	4	CL4P184S0608	CL4P184S0601
18	6	CL4P186S0608	CL4P186S0601
18	8	CL4P188S0608	CL4P188S0601
16	2	CL4P162S0608	CL4P162S0601
16	4	CL4P164S0608	CL4P164S0601
16	6	CL4P166S0608	CL4P166S0601
16	8	CL4P168S0608	CL4P168S0601
14	2	CL4P142S0608	CL4P142S0601
14	4	CL4P144S0608	CL4P144S0601
14	6	CL4P146S0608	CL4P146S0601
14	8	CL4P148S0608	CL4P148S0601

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