# Southwire CL4SS™ Class 4 Non-Shielded Outdoor / General Purpose

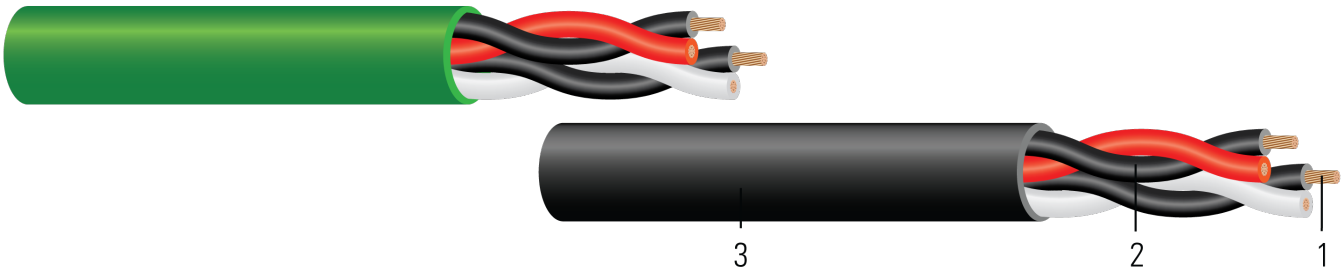



Image not to scale. See Table 1 for dimensions.

## 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, flame-retardant, Polyvinyl Chloride (PVC). See Table 4 for pair(s) numbers and colors.
3. **Jacket:** Lead-free, flame-retardant, LS, Polyvinyl Chloride (PVC). See Table 5 for available 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. The CL4Z cables are considered for outdoor use only and are not to be attached to or used within a building structure. Type CL4Z cables comply with the applicable requirements for CL4. The CMG cables can be installed in buildings according to NEC article 722.135 and table 722.135(B).

Ratings:
Normal operating temperature: 90°C
Temperature Range: -40°C to 90°C
Rated Use: Dry or wet locations

## SPECIFICATIONS:

- 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
- UL 444 Communications Cables
- IEEE 1202 FT4 Flame Test (70,000) BTU/hr Vertical Tray Test

## SAMPLE PRINT LEGEND:

{SQFTG} SOUTHWIRE{R} CL4SS P/N XX AWG X PAIR E537761 (UL) CL4Z 90C -40C OR CMG C(UL)US 90C -- FT4/IEEE 1202 -- WET LOCATIONS -- 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 |
| CL4Z182N | 18 | 2 | 0.045 | 17 | 25 | 0.349 | 26 | 1.2 | 6.669 |

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 |
| CL4Z182N | 18 | 2 | 0.045 | 0.43 | 0.64 | 8.86 | 39 | 30.48 | 21.88 |

## Table 3 - Typical Electrical Capacitance for Each Pair

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

## Table 4 - Stock Code by Jacket Color

| Size AWG | Number of Pairs | Green Jacket | Black Jacket | White Jacket |
|---|---|---|---|---|
| 18 | 2 | CL4Z182N0605 | CL4Z182N0608 | CL4Z182N0601 |
| 18 | 4 | CL4Z184N0605 | CL4Z184N0608 | CL4Z184N0601 |
| 18 | 8 | CL4Z188N0605 | CL4Z188N0608 | CL4Z188N0601 |
| 16 | 2 | CL4Z162N0605 | CL4Z162N0608 | CL4Z162N0601 |
| 16 | 4 | CL4Z164N0605 | CL4Z164N0608 | CL4Z164N0601 |
| 16 | 8 | CL4Z168N0605 | CL4Z168N0608 | CL4Z168N0601 |
| 14 | 2 | CL4Z142N0605 | CL4Z142N0608 | CL4Z142N0601 |
| 14 | 4 | CL4Z144N0605 | CL4Z144N0608 | CL4Z144N0601 |
| 14 | 8 | CL4Z148N0605 | CL4Z148N0608 | CL4Z148N0601 |


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## Table 5 - Pair Color Chart - Numbers & Colors

| 2 Pair | 4 Pair | 8 Pair |
|---|---|---|
| 1 Black & Red | 1 Black & Red | 1 Black & Red |
| 2 Black & White | 2 Black & White | 2 Black & White |
| | 3 Black & Green | 3 Black & Green |
| | 4 Black & Blue | 4 Black & Blue |
| | | 5 Black & Yellow |
| | | 6 Black & Brown |
| | | 7 Black & Orange |
| | | 8 Black & White |


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