



Class 4 Non-Shielded Outdoor / General Purpose

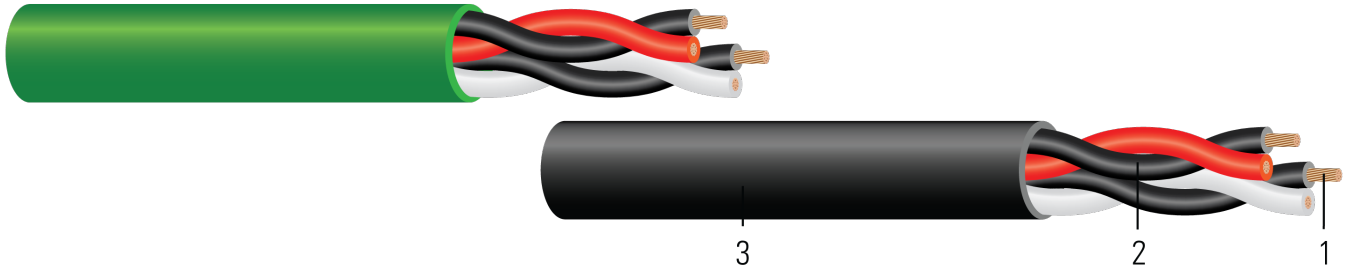


Image not to scale. See Table 1 for dimensions.

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 Class 4 cables are considered for outdoor use only and are not to be attached to or used within a building structure. Type Class 4 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} TANNER Class 4 P/N XX AWG X PAIR
WET LOCATIONS -- MADE IN USA ROHS-2 COMPLIANT

(UL) Class 4 90C -40C OR CMG C(UL)US 90C -- FT4/IEEE 1202 --





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
20C4-1802 18		2	0.045	17	25	0.349	26	1.2	6.669
20C4-1804 18		4	0.045	17	25	0.376	50	1.4	6.669
20C4-1808 18		8	0.045	17	37	0.417	88	2.0	6.669
20C4-1602 16		2	0.056	17	25	0.376	70	1.4	4.181
20C4-1604 16		4	0.056	17	32	0.403	113	1.7	4.181
20C4-1608 16		8	0.056	17	37	0.481	125	2.3	4.181
20C4-1402 14		2	0.070	22	30	0.467	112	1.6	2.631
20C4-1404 14		4	0.070	22	37	0.543	183	2.0	2.631
20C4-1408 14		8	0.070	22	37	0.780	370	2.6	2.631

All dimensions are nominal and subject to normal manufacturing tolerances

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
20C4-1802 18		2	0.045	0.43	0.64	8.86	39	30.48	21.88
20C4-1804 18		4	0.045	0.43	0.64	9.55	74	35.56	21.88
20C4-1808 18		8	0.045	0.43	0.94	10.59	131	50.80	21.88
20C4-1602 16		2	0.056	0.43	0.64	9.55	104	35.56	13.72
20C4-1604 16		4	0.056	0.43	0.81	10.24	168	43.18	13.72
20C4-1608 16		8	0.056	0.43	0.94	12.22	186	58.42	13.72
20C4-1402 14		2	0.070	0.56	0.76	11.86	167	40.64	8.63
20C4-1404 14		4	0.070	0.56	0.94	13.79	272	50.80	8.63
20C4-1408 14		8	0.070	0.56	0.94	19.81	551	66.04	8.63

Table 3 - Typical Electrical Capacitance for Each Pair

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





Table 4 - Stock Code by Jacket Color

Conductor Size	Number of Pairs	Jacket Color		
AWG	num	Green	Black	White
				
18	2	20C4-1802-05	20C4-1802-08	20C4-1802-01
18	4	20C4-1804-05	20C4-1804-08	20C4-1804-01
18	8	20C4-1808-05	20C4-1808-08	20C4-1808-01
16	2	20C4-1602-05	20C4-1602-08	20C4-1602-01
16	4	20C4-1604-05	20C4-1604-08	20C4-1604-01
16	8	20C4-1608-05	20C4-1608-08	20C4-1608-01
14	2	20C4-1402-05	20C4-1402-08	20C4-1402-01
14	4	20C4-1404-05	20C4-1404-08	20C4-1404-01
14	8	20C4-1408-05	20C4-1408-08	20C4-1408-01

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

