

## **Customer Specification**

### PART NO. F12004LW

#### **Construction**

						Diameters (In)	
1) Component 1						4 X 1 COND	
a) Conductor						12 (168(7x24)/34) AWG Bare Copper	0.104
b) Insulation						0.016" Wall, Nom. PVC/ 0.005" Wall NYLON	0.146
(1) Print						ALPHANUMERIC NUMBERS - 1-ONE ALTERNATING AND INVERTED	
(2) Color Code					Alpha Wire Color Code LX		
Cond	Color	Cond	Color	Cond	Color		
1	GREEN/YELLOW	3	DK. BLUE#2				
2	DK. BLUE#1	4	DK. BLUE#3				
2) Cable Assembly						4 Components Cabled	
a) Twists:						3.4 Twists/foot (min)	
b) Orientation:						Components to be arranged from OUTSIDE LAYER to INSIDE LAYER	
c) Core Wrap						REMAY Tape, 25% Overlap, Min.	
3) Jack	cet					0.065" Wall, Nom.,TPE	0.501+/- 0.02
a) Colo	or(s)					BLACK	
b) Print						ALPHA WIRE-* P/N F12004LW 4C 12 AWG (3.38mm2) THWN-2 SERIES F (UL) TYPE TC-ER 90C WET/DRY 600V OIL RES I/II -40C SUN RES OR TYPE PLTC 90C OR C(UL) CIC CONTROL/TC 12 AWG -40C 90C WET 90C DRY PVC/NYLON INS FT4 OR CRU AWM I/II A/B 90C 600V FT4 CE ROHS (DATE CODE) (SEQ FOOTAGE) * = Factory Code [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]	

## **Applicable Specifications**

1) UL		
a) Component 1	MTW	90°C Dry / 60°C Wet / 600 V <sub>RMS</sub>
	THWN-2	90°C Dry / 90°C Wet / 600 V <sub>RMS</sub>
o) Overall	-40C	
	TC	90°C Dry / 90°C Wet / 600 V <sub>RMS</sub>
	EXPOSED RUN	
	SUN RES	
	PLTC	90°C
	OIL RES I/II	
2) CSA International	C(RU) AWM I/II A/B	90°C / 600 V <sub>RMS</sub>
	FT4	
	C(UL) CIC CONTROL	90°C / 600V V <sub>RMS</sub>
	C(UL) TC	90°C Dry / 90°C Wet / 600V V <sub>RMS</sub>
	-40C	
3) Other	Conductors ASTM Class M	
	Conductors IEC Class 6 on AWG size	
4) CE:	EU Low Voltage Directive 2014/35/EU	

### **Environmental**

1) CE: EU Directive 2011/65/EU(RoHS2), EU Directive 2015/863/EU (RoHS3):	
	This product complies with European Directive 2011/65/EU (RoHS Directive) of the European Parliament and of the Council of 8 June 2011 and the amending Directive 2015/863/EU of 4 June 2015 . No Exemptions are required for RoHS Compliance on this item.
2) REACH Regulation (EC 1907/2006):	
	This product does not contain Substances of Very High Concern (SVHC) listed on the European Union's REACH candidate list in excess of 0.1% mass of the item.
3) California Proposition 65:	This product may contain substances known to the State of California to cause Cancer or Reproductive Harm, but is exempt from labeling based on the Consent Judgement. See the Alpha Wire website for more information.

# **Properties**

Physical & Mechanical Properties	
1) Temperature Range	-40 to 90°C(static), -5 to 90°C (dynamic)
2) Bend Radius	6X Cable Diameter(static), 8X Cable Diameter(dynamic)
3) Pull Tension	210 Lbs, Maximum
4) Sunlight Resistance	Yes
<b>Electrical Properties</b>	(For Engineering purposes only)
1) Voltage Rating	600 V <sub>RMS</sub>
2) Capacitance	33 pF/ft @1 kHz, Nominal Conductor to Conductor
3) Inductance	0.16 μH/ft, Nominal

#### Other

Packaging	Flange x Traverse x Barrel (inches)
a) Bulk(Made-to-order)	
Notes:	
a) Suitable for constant flexing where cycle count will be less than 20,000,000 cycles.	
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#### www.alphawire.com

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Lead Mercury □□□□□□□□0.1% (1000 ppm) Cadmium Hexavalent Chromium □□□□□□□□0.1% (1000 ppm) Polybrominated Biphenyls (PBB) □□□□□□□□0.1% (1000 ppm) Polybrominated Diphenyl Ethers (PBDE), □□□□□□□□0.1% (1000 ppm) Including Deca-BDE Bis(2-ethylhexyl) phthalate (DEHP) Butyl benzyl phthalate (BBP) Dibutyl phthalate (DBP) Diisobutyl phthalate (DIBP)

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