

# **Customer Specification**

## PART NO. MP12104KW

### Construction

						Diameters (In)	
1) Component 1						4 X 1 COND	
a) Conductor						12 (65/30) AWG Bare Copper	0.093
b) Insulation						0.016" Wall, Nom. PVC/ 0.005" Wall NYLON	0.135
(1) Print						ALPHANUMERIC NUMBERS - 1-ONE ALTERNATING AND	
(2) Colo	or Code					Alpha Wire Color Code KX	
Cond	Color	Cond	Color	Cond	Color		
1	GREEN/YELLOW	3	BLACK#2				
2	BLACK#1	4	BLACK#3		_		
2) Cabl	e Assembly		•	•		4 Components Cabled	
a) Twis	ts:					2.7 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	et					0.065" Wall, Nom.,TPE	0.472+/- 0.020
a) Color(s)						Yellow, Orange, Black	
b) Print						ALPHA WIRE-* P/N MP12104KW 4C 12 AWG (3.29mm2) THWN-2 SERIES P (UL) TYPE TC-ER 90C 600V OIL RES I/II SUN RES OR TYPE PLTC 90C OR C(UL) CIC CONTROL/TC 90C PVC/NYLON INS FT4 12 AWG 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	THWN-2	90°C Dry / 90°C Wet / 600 V <sub>RMS</sub>	
	MTW		
b) Overall	PLTC		
	ТС	90°C Dry / 90°C Wet / 600 V <sub>RMS</sub>	
	EXPOSED RUN		
	SUN RES		
	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 / 600V V <sub>RMS</sub>	
3) Other	Conductors ASTM Class K		
	Conductors IEC Class 5 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	-30 to 90°C(static), -5 to 90°C (dynamic)				
2) Bend Radius	8X Cable Diameter(static), 8X Cable Diameter(dynamic)				
3) Pull Tension	204 Lbs, Maximum				
4) Sunlight Resistance	Yes				
Electrical Properties	(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				
	1.64 Ω/1000ft @20°C, Nominal				

### Other

Packaging	Flange x Traverse x Barrel (inches)
a) Bulk(Made-to-order)	
Notes:	
a) Suitable for intermittent or light duty flexing where cycle count will be less than 1,500,000 cycles.	

#### www.alphawire.com

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Alpha Wire DDDDMP12104KW

MP12104KWDDDRoHSDDDD 2005/8/1 DDDDDD

DDDDLeadMercuryCadmiumHexavalent ChromiumPolybrominated Biphenyls (PBB)Polybrominated Diphenyl Ethers (PBDE),Including Deca-BDEBis(2-ethylhexyl) phthalate (DEHP)Butyl benzyl phthalate (BBP)Dibutyl phthalate (DBP)Diisobutyl phthalate (DIBP)

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