

Alpha Wire | 711 Lidgerwood Avenue, Elizabeth, NJ 07207 Tel: 1-800-52 ALPHA (25742), Web: www.alphawire.com

Request a Sample

# Customer Specification PART NO. MP10107KW

#### Construction

				Diameters (In)	
1) Component 1		7 X 1 COND			
a) Conductor		10 (105/30) AWG Bare Copper		0.118	
b) Insulation		0.022" Wall, Nom. PVC/ 0.005" Wall NYLON		0.172	
(1) Print		ALPHANUMERIC NUMBERS - 1-ONE ALTERNATING AND INVERTED			
(2) Color Code		Alpha Wire Color Code KX			
Cond	Color	Cond	Color	Cond	Color
1	GREEN/YELLOW	4	BLACK#3	7	BLACK#6
2	BLACK#1	5	BLACK#4		
3	BLACK#2	6	BLACK#5		
2) Cable Assembly		7 Components Cabled			
a) Twists:		1.7 Twists/foot (min)			
b) Orientation:		Components to be arranged from OUTSIDE LAYER to INSIDE LAYER		c) Core Wrap	
REMAY Tape, 25% Overlap, Min.				3) Jacket	
0.065" Wall, Nom.,TPE		0.664+/- 0.031		a) Color(s)	
Yellow, Orange, Black				b) Print	

**Applicable Specifications** 

1) UL		
a) Component 1	мтw	90°C Dry / 60°C Wet / 600 V <sub>RMS</sub>
	THHN	90°C / 600 V <sub>RMS</sub>
b) Overall	тс	90°C Dry / 75°C Wet / 600 V <sub>RMS</sub>
	EXPOSED RUN	
	SUN RES	
	OIL RES I/II	
2) CSA International	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/EC	

### Environmental

1) CE: EU Directive 2011/65/EU(RoHS2):				
	This product complies with European Directive 2011/65/EU (RoHS Directive) of the European Parliament and of the Council of 8 June 2011. No Exemptions are required for RoHS Compliance on this item. Consult Alpha Wire's web site for RoHS C of C.			
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. For up-to-date information, please see Alpha's REACH SVHC Declaration.			
3) California Proposition 65:	The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65.			

### 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	577 Lbs, Maximum		
4) Sunlight Resistance	Yes		
Electrical Properties	(For Engineering purposes only)		
1) Voltage Rating	600 V <sub>RMS</sub>		
2) Capacitance	36 pF/ft @1 kHz, Nominal Conductor to Conductor		
3) Inductance	0.16 μH/ft, Nominal		
4) Conductor DCR	1.02 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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## **EU/China ROHS CERTIFICATE OF COMPLIANCE**

To Whom It May Concern:

Alpha Wire Part Number: MP10107KW

MP10107KW, RoHS-Compliant Commencing With 8/1/2005 Production

Note: all colors and put-ups

This document certifies that the Alpha part number cited above is manufactured in accordance with Directive 2011/65/EU of the European Parliament, better known as the RoHS Directive (commonly known as RoHS 2), with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. This certification extends to amending Directive 2015/863/EU which expanded the list of restricted substances to 10 items (commonly known as RoHS 3) The reader is referred to these Directives for the specific definitions and extents of the Directives. **No Exemptions are required for RoHS Compliance on this item**. Additionally, Alpha certifies that the listed part number is in compliance with China RoHS "Marking for Control of Pollution by Electronic Information Products" standard SJ/T 11364-2014.

Maximum Control Value
0.1% by weight (1000 ppm)
0.1% by weight (1000 ppm)
0.01% by weight (100 ppm)
0.1% by weight (1000 ppm )
0.1% by weight (1000 ppm)
0.1% by weight (1000 ppm)

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Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering & QA Alpha Wire 711 Lidgerwood Ave. Elizabeth, NJ 07207 Tel: 1-908-925-8000 2/9/2017