

Customer Specification

PART NO. M10107KW

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	
(2) Colo	or Code					Alpha Wire Color Code KX	
Cond	Color	Cond	Color	Cond	Color		
1	GREEN/YELLO	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					Clear Mylar Tape, 25% Overlap, Min.		
3) Jacke	et					0.065" Wall, Nom.,PVC	0.652+/- 0.03
a) Colo	r(s)					SLATE	
b) Print						ALPHA WIRE-* P/N M10107KW 7C 10 AWG (5.32mm2) SERIES M (UL) WTTC 90C WET/DRY 1000V OR (UL) TC-ER 90C WET/DRY 600V SUN RES DIR BUR OIL RES I OR MTW 10 AWG OR CRU AWM I/II A/B 90C 600V FT4 CE ROHS (DATE CODE) (SEQ FOOTAGE) * = Factory Code	

Applicable Specifications

1) UL	тс	90°C Dry / 90°C Wet / 600 V _{RMS}
	EXPOSED RUN	
	SUN RES	
	DIRECT BURIAL	
	OIL RES I	
	MTW	90°C Dry / 60°C Wet / 600 V _{RMS}
	WTTC	90°C Dry / 90°C Wet / 1000 V _{RMS}
2) CSA International	FT4	
	C(RU) AWM I/II A/B	90°C / 600 V _{RMS}
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	577 Lbs, Maximum				
4) Sunlight Resistance	Yes				
5) Direct Burial	Yes				
Electrical Properties	(For Engineering purposes only)				
1) Voltage Rating	600 V _{RMS}				
2) Capacitance	33 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

Alpha Wire 2200 US Highway 27 South Richmond, IN 47374

Tel: 1-800-52 ALPHA

Although Alpha Wire ("Alpha") makes every reasonable effort to ensure there accuracy at the time of publication, information and specifications described herein are subject to errors or omissions and to changes without notice, and the listing of such information and specifications does not ensure product availability.

Alpha provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Alpha be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary) whatsoever, even if Alpha had been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein. SpecPDFFooterConfidential





Alpha Wire DDDDM10107KW

M10107KWDDDRoHSDDDD 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)Disobutyl phthalate (DIBP)

 DDDDD

 DDDDDDDDD0.1% (1000 ppm)

 DDDDDDDD0.1% (1000 ppm)

 DDDDDDDD0.1% (1000 ppm)

 DDDDDDDD0.1% (1000 ppm)

 DDDDDDDD0.1% (1000 ppm)

 DDDDDDDDD0.1% (1000 ppm)

 DDDDDDDD0.1% (1000 ppm)

 DDDDDDDD0.1% (1000 ppm)

 DDDDDDDD0.1% (1000 ppm)

 DDDDDDDD00.1% (1000 ppm)

Alpha Wire 00000000

OBLIT

DDDDDDD Dave Watson

2025/8/4