

Customer Specification

PART NO. M10105KW

Construction

						Diamete	rs (In)
1) Component 1 5 X 1 COND							
a) Conductor		10 (105/30) AWG Bare Copper				0.118	
		0.022" Wall, Noi	m. PVC/ 0.005" Wal	I NYLON		0.172	
(1) Print ALPHANUMERIC NU INVERTED		C NUMBERS - 1-ON	JMBERS - 1-ONE ALTERNATING AND				
(2) Color Code		Alpha Wire Colo	or Code KX				
Cond	Color	·	Cond	Color	Cond		Color
1	GREEN/	YELLOW	3	BLACK#2	5		BLACK#4
2	BLACK#	1	4	BLACK#3			
2) Cable Assembly 5 Components Cable		Cabled	ed				
a) Twists: 1.8 Twists/foot (min)		(min)					
b) Orientation: Compone		Components to	mponents to be arranged from OUTSIDE LAYER to INSIDE LAYER				
c) Core Wrap Clear M		Clear Mylar Tap	ear Mylar Tape, 25% Overlap, Min.				
3) Jacket		0.065" Wall, Nom.,PVC				0.600+/- 0.028	
a) Color(s) Slate, Black							
SERIES (UL) TC b) Print SUN R OR CR CE RO		SERIES M (UL) V (UL) TC-ER 90C SUN RES DIR BL OR CRU AWM I,	LPHA WIRE-* P/N M10105KW 5C 10 AWG (5.32mm2) ERIES M (UL) WTTC 90C WET/DRY 1000V OR JL) TC-ER 90C WET/DRY 600V UN RES DIR BUR OIL RES I OR MTW 10 AWG IR CRU AWM I/II A/B 90C 600V FT4 E 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/E	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 190)7/2006):
	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	412 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			

Packaging	Flange x Traverse x Barrel (inches)		
a) Bulk(Made-to-order)			
Notes:			
a) Black color jacket is a special request item.			
b) 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/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: M10105KW

M10105KW, RoHS-Compliant Commencing With 8/1/2005 Production

Note: all colors and put-ups

This document certifies that the Alpha part number cited above, including all packaging materials, 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). This product also complies with UK - RoHS. 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 2 per GB/T 26572-2011.

Substance	Maximum Control Value
Lead	0.1% by weight (1000 ppm)
Mercury	0.1% by weight (1000 ppm)
Cadmium	0.01% by weight (100 ppm)
Hexavalent Chromium	0.1% by weight (1000 ppm)
Polybrominated Biphenyls (PBB)	0.1% by weight (1000 ppm)
Polybrominated Diphenyl Ethers (PBDE) ,	
Including Deca-BDE	0.1% by weight (1000 ppm)
Bis(2-ethylhexyl) phthalate (DEHP)	0.1% by weight (1000 ppm)
Butyl benzyl phthalate (BBP)	0.1% by weight (1000 ppm)
Dibutyl phthalate (DBP)	0.1% by weight (1000 ppm)
Diisobutyl phthalate (DIBP)	0.1% by weight (1000 ppm)

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Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering 5/4/2024

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