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## Construction

						Diameters (In)		
1) Component 1						5 X 1 COND		
a) Conductor						8 (168(7x24)/30) AWG Bare Copper		0.168
b) Insulation						0.032" Wall, Nom. PVC/ 0.006" Wall NYLON		0.244
(1) Print						ALPHANUMERIC NUMBERS - 1-ONE ALTERNATING AND INVERTED		
(2) Color Code						Alpha Wire Color Code RX		
Cond	Color	Cond	Color	Cond	Color			
1	GREEN/YELLOW	3	RED#2	5	RED#4			
2	RED#1	4	RED#3					
2) Cable Assembly						5 Components Cabled		
a) Twists:						1.3 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) Jacket						0.065" Wall, Nom.,PVC		0.795 +/- 0.030
a) Color(s)						SLATE		
b) Print						ALPHA WIRE-* P/N M08105RW 5C 8 AWG (8.51mm <sup>2</sup> ) 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 8 AWG OR CRU AWM I/II A/B 90C 600V FT4 CE ROHS (DATE CODE) (SEQ FOOTAGE) * = Factory Code		

## Applicable Specifications

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1) UL	TC	90°C Dry / 90°C Wet / 600 V <sub>RMS</sub>
	EXPOSED RUN	
	SUN RES	
	DIRECT BURIAL	
	OIL RES I	
	MTW	90°C Dry / 60°C Wet / 600 V <sub>RMS</sub>
	WTTC	90°C Dry / 90°C Wet / 1000 V <sub>RMS</sub>
2) CSA International	FT4	
	C(RU) AWM I/II A/B	90°C / 600 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	660 Lbs, Maximum
4) Sunlight Resistance	Yes
5) Direct Burial	Yes
Electrical Properties	
(For Engineering purposes only)	
1) Voltage Rating	600 V <sub>RMS</sub>
2) Capacitance	32 pF/ft @1 kHz, Nominal Conductor to Conductor
3) Inductance	0.16 μH/ft, Nominal
4) Conductor DCR	0.65 Ω/1000ft @20°C, Nominal

# Other

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

[www.alphawire.com](http://www.alphawire.com)

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