

Customer Specification

PART NO. M3806

Construction

						Diameters (In)		
1) Component 1						8 X 1 COND		
a) Conductor						18 (7/.0152) AWG Bare Copper		0.046
b) Insulation						0.016" Wall, Nom. PVC/ 0.005" Wall NYLON		0.088
(1) Color Code						Alpha Wire Color Code J		
Cond	Color	Cond	Color	Cond	Color			
1	BLACK	4	ORANGE	7	RED/BLACK			
2	RED	5	YELLOW	8	BLUE/BLACK			
3	BLUE	6	BROWN					
2) Cable Assembly						8 Components Cabled		
a) Twists:						2.8 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						0.047" Wall, Nom.,PVC		0.390 (0.411 Max.)
a) Color(s)						BLACK		
b) Print						ALPHA WIRE-* P/N M3806 8C 18 AWG EXXXXXX (UL) TYPE TC 600V 90C DRY 75C WET SUN RES DIR BUR CE ROHS * = Factory Code		

Applicable Specifications

1) UL	TC	90°C Dry / 75°C Wet / 600 V _{RMS}
	SUN RES	
	DIRECT BURIAL	
2) 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	-25 to 90°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	102 Lbs, Maximum
4) Sunlight Resistance	Yes
5) Direct Burial	Yes
Electrical Properties	
(For Engineering purposes only)	
1) Voltage Rating	600 V _{RMS}
2) Capacitance	25 pF/ft @1 kHz, Nominal Conductor to Conductor
3) Inductance	0.19 μH/ft, Nominal
4) Conductor DCR	6.6 Ω/1000ft @20°C, Nominal

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	18 x 14.25 x 8 Continuous length
b) 500 FT	18 x 9 x 8 Continuous length
c) 100 FT	12 x 5.94 x 5 Continuous length
d) Bulk(Made-to-order)	
	<i>[Spool dimensions may vary slightly]</i>

www.alphawire.com

Alpha Wire
2200 US Highway 27 South
Richmond, IN 47374

Tel: 1-800-52 ALPHA

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