

# Customer Specification

## PART NO. M3810

### Construction

		Diameters (In)			
1) Component 1		12 X 1 COND			
a) Conductor		18 (7/.0152) AWG BC		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	5	YELLOW	9	ORANGE/BLACK
2	RED	6	BROWN	10	YELLOW/BLACK
3	BLUE	7	RED/BLACK	11	BROWN/BLACK
4	ORANGE	8	BLUE/BLACK	12	BLACK/RED
2) Cable Assembly		12 Components Cabled			
a) Twists:		2.2 Twists/foot (min)			
b) Core Wrap		Clear Mylar Tape, 25% Overlap, Min.			
3) Jacket		0.047" Wall, Nom.,PVC		0.463 (0.488 Max.)	
a) Color(s)		BLACK			
b) Print		ALPHA WIRE-* P/N M3810 12C 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 / 600 V <sub>RMS</sub>
	SUN RES	
	DIRECT BURIAL	
2) CE:	EU Low Voltage Directive 2006/95/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	-25 to 90°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	152 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	28 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

<b>Packaging</b>	Flange x Traverse x Barrel (inches)
a) 1000 FT	24 x 14 x 12 Continuous length
b) 500 FT	18 x 12 x 8 Continuous length
c) 100 FT	12 x 10 x 5 Continuous length
d) Bulk(Made-to-order)	
	<i>[Spool dimensions may vary slightly]</i>

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

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