



Alpha Wire | 711 Lidgerwood Avenue, Elizabeth, NJ 07207  
Tel: 1-800-52 ALPHA (25742), Web: [www.alphawire.com](http://www.alphawire.com)

# Customer Specification

## PART NO. M3803

### Construction

		Diameters (In)						
1) Component 1	5 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	3	BLUE	5	YELLOW			
2	RED	4	ORANGE					
2) Cable Assembly	5 Components Cabled							
a) Twists:	3.4 Twists/foot (min)							
b) Core Wrap	Clear Mylar Tape, 25% Overlap, Min.							
3) Jacket	0.047" Wall, Nom.,PVC		0.336 (0.354 Max.)					
a) Color(s)	BLACK							
b) Print	ALPHA WIRE-* P/N M3803 5C 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	63 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

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	18 x 12 x 8 Continuous length
b) 500 FT	16 x 11 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>

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