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### **Construction**

						Diameters (In)	
1) Component 1					15 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	6	BROWN	11	BROWN/BI		
2	RED	7	RED/BLACk	12	BLACK/REE		
3	BLUE	8	BLUE/BLAC	13	BLUE/RED		
4	ORANGE	9	ORANGE/B	14	ORANGE/R		
5	YELLOW	10	YELLOW/BI	15	YELLOW/RI		
2) Cable Assembly					15 Components Cabled		
a) Twists:						2.0 Twists/foot (min)	
b) Orientation:						Components to be arranged from INSIDE LAYER to OUTSIDE LAYER	
c) Core Wrap						Clear Mylar Tape, 25% Overlap, Min.	
3) Shield:						Alum/Mylar Tape, 25% Overlap, Min.	
a) Foil Direction						Foil Facing In	
b) Drain Wire						20 (7/28) AWG Tinned Copper	
4) Jacket						0.063" Wall, Nom.,PVC	0.537 (0.567 Max.)
a) Color(s)						BLACK	
b) Print						ALPHA WIRE-* P/N M33815 15C 18 AWG EXXXXXX (UL) TYPE TC 600V 90C DRY 75C WET SUN RES DIR BUR CE ROHS * = Factory Code	

# **Applicable Specifications**

1) UL	SUN RES	
	DIRECT BURIAL	
	тс	90°C Dry / 75°C Wet / 600 V <sub>RMS</sub>
2) CE:	EU Low Voltage Directive 2014/35/EU	

## **Environmental**

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.
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.
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	199 Lbs, Maximum
4) Sunlight Resistance	Yes
5) Direct Burial	Yes
<b>Electrical Properties</b>	(For Engineering purposes only)
1) Voltage Rating	600 V <sub>RMS</sub>
2) Capacitance	37 pF/ft @1 kHz, Nominal Conductor to Conductor
3) Ground Capacitance	67 pF/ft @1 kHz, Nominal
4) Inductance	0.19 μH/ft, Nominal
5) Conductor DCR	6.6 Ω/1000ft @20°C, Nominal
6) OA Shield DCR	6.9 Ω/1000ft @20°C, Nominal

## Other

Packaging	Flange x Traverse x Barrel (inches)	
a) 1000 FT	30 x 14 x 12 Continuous length	
b) 500 FT	18 x 14.25 x 8 Continuous length	
c) 100 FT	18 x 9 x 8 Continuous length	
d) Bulk(Made-to-order)		
	[Spool dimensions may vary slightly]	

#### www.alphawire.com

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

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