

# Customer Specification

## PART NO. 8671806CY

### Construction

						Diameters (In)	
1) Component 1						6 X 1 PAIR	
a) Conductor						18 (41/34) AWG Tinned Copper	
b) Insulation						0.010" Wall, Nom. PVC, Semi Rigid	
(1) Color Code						Alpha Wire Color Code A	
Pair	Color	Pair	Color	Pair	Color		
1	BLACK-RED	3	BLACK-GREEN	5	BLACK-BROWN		
2	BLACK-WHITE	4	BLACK-BLUE	6	BLACK-YELLOW		
c) Pair						2/Cond Cabled Together	
(1) Twists:						8.0 Twists/foot (min)	
2) Cable Assembly						6 Components Cabled	
a) Twists:						3.2 Twists/foot (min)	
b) Orientation:						Components to be arranged from INSIDE LAYER to OUTSIDE LAYER	
c) Core Wrap						Nonwoven Polyester Tape, 20% Overlap, Min.	
3) Shield:						Flex Alum/Mylar Tape, 20% Overlap, Min.	
a) Foil Direction						Foil Facing Out	
b) Drain Wire						26 (7/34) AWG Tinned Copper	
c) Braid						Tinned Copper, 85% Coverage, Nom.	
4) Jacket						0.053" Wall, Nom., PVC	
a) Color(s)						SLATE	
b) Jacket Separator						Tissue Tape, 20% Overlap, Min.	
c) Print						ALPHA WIRE-* P/N 8671806CY 6PR 18 AWG XTRAGUARD(R) CONTINUOUS FLEX DATA CABLE (UL) TYPE PLTC 105C OR TYPE CM 105C SUN RES OR C(UL) CMG OR AWM 2661 105C 300V --- LLXXXXXX CSA AWM I/II A/B FT4 105C 300V CE ROHS OIL RESISTANT (SEQ FOOTAGE) * = Factory Code [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]	

## Applicable Specifications

1) UL		
a) Component 1	AWM/STYLE 10002	105°C / 300 V <sub>RMS</sub>
b) Overall	AWM/STYLE 2661	105°C / 300 V <sub>RMS</sub>
	CM	105°C
	SUN RES	
	PLTC	105°C
2) CSA International	AWM I/II A/B	105°C / 300 V <sub>RMS</sub>
	C(UL) TYPE CMG	105°C
	FT4	
3) Other	Oil Resistant	
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

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<b>Physical &amp; Mechanical Properties</b>	
1) Temperature Range	-10 to 105°C(static), +5 to 105°C (dynamic)
2) Bend Radius	10X Cable Diameter(static), 15X Cable Diameter(dynamic)
3) Pull Tension	164 Lbs, Maximum
4) Sunlight Resistance	Yes
<b>Electrical Properties</b>	
(For Engineering purposes only)	
1) Voltage Rating	300 V <sub>RMS</sub>
2) Mutual Capacitance	28 pF/ft @1 kHz, Nominal
3) Ground Capacitance	50 pF/ft @1 kHz, Nominal
4) Characteristic Impedance	67 Ω
5) Inductance	0.16 μH/ft, Nominal
6) Conductor DCR	7.1 Ω/1000ft @20°C, Nominal
7) OA Shield DCR	2.14 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 14.25 x 8 Continuous length
c) 100 FT	12 x 5.94 x 5 Continuous length
	<i>[Spool dimensions may vary slightly]</i>
<b>Notes:</b>	
a) Oil Resistant Jacket (7d @ 60C).	

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

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