2200 US Highway 27 South
Richmond, IN 47374
Tel: 1-800-52 ALPHA
Web: www.alphawire.com

Customer Specification

PART NO. 85818

Construction

	Diameters (In)	
1) Component 1	18 X 1 COND	
a) Conductor	18 (105(7x15)/38) AWG Bare Copper	0.052
b) Insulation	0.022" Wall, Nom. PVC	0.096
(1) Print	ALPHANUMERIC NUMBERS - 1-ONE ALTERNATING AND INVERTED	
(2) Color(s)		

Cond	Color	Cond	Color	Cond	Color
1	RED #1	7	RED #7	13	RED #13
2	RED #2	8	RED #8	14	RED #14
3	RED #3	9	RED #9	15	RED #15
4	RED #4	10	RED #10	16	RED #16
5	RED #5	11	RED #11	17	RED #17
6	RED #6	12	RED #12	18	YELLOW/GREEN

2) Cable Assembly	18 Components Cabled	
a) Twists:	2.5 Twists/foot (min)	
b) Orientation:	Components to be arranged from INSIDE LAYER to OUTSIDE LAYER	
c) Core Wrap	REMAY Tape, 25% Overlap, Min.	
3) Jacket	0.050" Wall, Nom.,PVC, Oil Resistant	0.608+/- 0.032
a) Color(s)	BLACK	
b) Jacket Separator	Tissue Tape, 25% Overlap, Min.	
c) Print	ALPHA WIRE-* P/N 85818 18C 18 AWG XTRAGUARD(R) CONTINUOUS FLEX CONTROL CABLE RU AWM 2587 CONSTANT FLEXING OR CRU AWM I/II A/B FT1 90C 600V CE ROHS (SEQ FOOTAGE) * = Factory Code	

Applicable Specifications

1) UL		
a) Component 1	AWM/STYLE 10012	90°C / 600 V_{RMS}
b) Overall	AWM/STYLE 2587	90°C / 600 V_{RMS}
2) CSA International	C(RU) AWM I/II A/B	90°C / 600 V_{RMS}
	FT1	
3) Other	VDE 0472, Section 803 Oil Test	
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

Physical & Mechanical Properties	
1) Temperature Range	-40 to 90°C(static), -5 to 90°C (dynamic)
2) Bend Radius	8X Cable Diameter(static), 8X Cable Diameter(dynamic)
3) Pull Tension	238 Lbs, Maximum
Electrical Properties	(For Engineering purposes only)
1) Voltage Rating	600 V_{RMS}
2) Capacitance	27 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	30 x 14 x 12 Continuous length
b) 500 FT	24 x 14 x 12 Continuous length
c) 100 FT	18 x 9 x 8 Continuous length
	[Spool dimensions may vary slightly]

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

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