

Customer Specification

PART NO. M18142RW

Construction

						Diameters (In)	
1) Component 1						42 X 1 COND	
a) Conductor						18 (19/30) AWG Bare Copper	0.050
b) Insulation						0.016" Wall, Nom. PVC/ 0.005" Wall NYLON	0.092
(1) Print						ALPHANUMERIC NUMBERS - 1-ONE ALTERNATING AND INVERTED	
(2) Color Code						Alpha Wire Color Code RW	
Cond	Color	Cond	Color	Cond	Color		
1	GREEN/YELLOW	15	RED#14	29	RED#28		
2	RED#1	16	RED#15	30	RED#29		
3	WHITE/RED	17	RED#16	31	RED#30		
4	RED#3	18	RED#17	32	RED#31		
5	RED#4	19	RED#18	33	RED#32		
6	RED#5	20	RED#19	34	RED#33		
7	RED#6	21	RED#20	35	RED#34		
8	RED#7	22	RED#21	36	RED#35		
9	RED#8	23	RED#22	37	RED#36		
10	RED#9	24	RED#23	38	RED#37		
11	RED#10	25	RED#24	39	RED#38		
12	RED#11	26	RED#25	40	RED#39		
13	RED#12	27	RED#26	41	RED#40		
14	RED#13	28	RED#27	42	RED#41		
2) Cable Assembly						42 Components Cabled	
a) Twists:						1.2 Twists/foot (min)	
b) Orientation:						Components to be arranged from OUTSIDE LAYER to INSIDE LAYER	
c) Core Wrap						Clear Mylar Tape, 25% Overlap, Min.	
3) Jacket						0.085" Wall, Nom.,PVC	0.874+/- 0.045
a) Color(s)						SLATE	
b) Print						ALPHA WIRE-* P/N M18142RW 42C 18 AWG (0.963mm2) SERIES M (UL) WTTC 90C WET/DRY 1000V OR (UL) TC-ER 90C WET/DRY 600V SUN RES DIR BUR OIL RES I OR MTW 18 AWG OR (UL) PLTC 90C OR CRU AWM I/II A/B 90C 600V FT4 CE ROHS (DATE CODE) (SEQ FOOTAGE) * = Factory Code	

Applicable Specifications

1) UL	TC	90°C Dry / 90°C Wet / 600 V _{RMS}
	PLTC	90°C
	SUN RES	
	EXPOSED RUN	
	DIRECT BURIAL	
	OIL RES I	
	MTW	90°C Dry / 60°C Wet / 600 V _{RMS}
	WTTC	90°C Dry / 90°C Wet / 1000 V _{RMS}
2) CSA International	C(RU) AWM I/II A/B	90°C / 600 V _{RMS}
	FT4	
3) Other	Conductors ASTM Class K	
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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Physical & Mechanical Properties	
1) Temperature Range	-30 to 90°C(static), -5 to 90°C (dynamic)
2) Bend Radius	8X Cable Diameter(static), 8X Cable Diameter(dynamic)
3) Pull Tension	627 Lbs, Maximum
4) Sunlight Resistance	Yes
5) Direct Burial	Yes
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	5.7 Ω/1000ft @20°C, Nominal

Other

Packaging	Flange x Traverse x Barrel (inches)
a) Bulk(Made-to-order)	
Notes:	
a) Suitable for intermittent or light duty flexing where cycle count will be less than 1,500,000 cycles.	

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