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

Customer Specification

PART NO. M16142RW

Construction

	Diameters (In)	
1) Component 1	42 X 1 COND	
a) Conductor	16 (26/30) AWG Bare Copper	0.060
b) Insulation	0.016" Wall, Nom. PVC/ 0.005" Wall NYLON	0.102
(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:	1.1 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	0.950+/- 0.046
a) Color(s)	SLATE	
b) Print	ALPHA WIRE-* P/N M16142RW 42C 16 AWG (1.32mm2) 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 16 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}
	EXPOSED RUN	
	SUN RES	
	PLTC	90°C
	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	FT4	
	C(RU) AWM I/II A/B	90°C / 600 V_{RMS}
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

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	858 Lbs, Maximum
4) Sunlight Resistance	Yes
5) Direct Burial	Yes
Electrical Properties	(For Engineering purposes only)
1) Voltage Rating	600 V_{RMS}
2) Capacitance	29 pF/ft @1 kHz, Nominal Conductor to Conductor
3) Inductance	0.18 µH/ft, Nominal
4) Conductor DCR	4.1 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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RoHS□□*SJ/T 11364-2014*□

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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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