



Customer Specification

PART NO. M16142RW

Construction

				Diameters (In)	
1) Component 1		42 X 1 COND			
a) Conductor		16 (26/30) AWG BC			
b) Insulation		0.016" Wall, Nom. PVC/ 0.005" Wall NYLON		0.102	
(1) Print		ALPHA NUMERIC NUMBERS - 1-ONE ALTERNATING AND INVERTED			
(2) Color Code		Alpha Wire Company 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) 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 (1.32mm ²) SERIES M (UL) WTTC 90C DRY 75C WET 1000V OR (UL) TC-ER 90C DRY 75C WET 600V SUN RES DIR BUR OIL RES I OR MTW 16 AWG OR (UL) PLTC 90C --- LLXXXXXX CSA AWM I/II A/B 90C 600V FT4 CE ROHS (DATE CODE) (SEQ FOOTAGE) * = Factory Code <i>[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]</i>			

Applicable Specifications

1) UL	TC	90°C / 600 V _{RMS}
	EXPOSED RUN	
	SUN RES	
	PLTC	90°C
	DIRECT BURIAL	
	OIL RES I	
	MTW	90°C / 600 V _{RMS}
	WTTC	90°C / 1000 V _{RMS}
2) CSA International	FT4	
	AWM I/II A/B	90°C / 600 V _{RMS}
3) CE:	LVD 73/23/EEC Amendment 93/68/EEC	

Environmental

1) EU Directive 2002/95/EC(RoHS):	
	All materials used in the manufacture of this part are in compliance with EU Directive 2002/95/EU regarding the restriction of use of certain hazardous substances in electrical and electronic equipment. Consult Alpha Wire's web site for compliance Date of Manufacture.
2) California Proposition 65:	The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65.

Properties

Physical & Mechanical Properties	
1) Temperature Range	-25 to 90°C
2) Bend Radius	10X Cable Diameter
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	31 pf/ft @1 kHz, Nominal Conductor to Conductor
3) Inductance	0.18 µH/ft, Nominal
4) Conductor DCR	4.1 O/1000ft @20°C, Nominal

Other

1) Packaging	
a) Bulk(Made-to-order)	

www.alphawire.com

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RoHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number:M16142RW

M16142RW , RoHS-Compliant Commencing With8/1/2005Production

*This document certifies that the Alpha part numbers cited above are manufactured in accordance with Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003, better known as the RoHS Directives, with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. The reader is referred to these Directives for the specific definitions and extents of these Directives. **No Exemptions are required for RoHS Compliance on this item.***

Substance	Maximum Control Value
Lead	0.1% by weight (1000 ppm)
Mercury	0.1% by weight (1000 ppm)
Cadmium	0.1% by weight (100 ppm)
Hexavalent Chromium	0.1% by weight (1000 ppm)
Polybrominated Biphenyls (PBB)	0.1% by weight (1000 ppm)
Polybrominated Diphenyl Ethers (PBDE) Including Deca-BDE	0.1% by weight (1000 ppm)

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Authorized Signatory for the Alpha Wire Company:

A handwritten signature in black ink, appearing to read 'Dave Watson'.

Dave Watson, Director of Engineering &QA

1/21/2011