

Alpha Wire | 711 Lidgerwood Avenue, Elizabeth, NJ 07207 Tel: 1-800-52 ALPHA (25742), Web: www.alphawire.com

Request a Sample

# Customer Specification PART NO. F16033RW

#### Construction

				Diameters (In)		
1) Component 1		33 X 1 COND				
a) Conductor		16 (65/34) AWG	16 (65/34) AWG BC		0.059	
b) Insulation		0.016" Wall, Nor	0.016" Wall, Nom. PVC/ 0.005" Wall NYLON		0.101	
(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	12	RED#11	23	RED#22	
2	RED#1	13	RED#12	24	RED#23	
3	WHITE/RED	14	RED#13	25	RED#24	
4	RED#3	15	RED#14	26	RED#25	
5	RED#4	16	RED#15	27	RED#26	
6	RED#5	17	RED#16	28	RED#27	
7	RED#6	18	RED#17	29	RED#28	
8	RED#7	19	RED#18	30	RED#29	
9	RED#8	20	RED#19	31	RED#30	
10	RED#9	21	RED#20	32	RED#31	
11	RED#10	22	RED#21	33	RED#32	
2) Cable Assembly		33 Components Cabled				
a) Twists:		1.7 Twists/foot (min)				
b) Core Wrap		REMAY Tape, 25% Overlap, Min.				
3) Jacket		0.085" Wall, Nom.,TPE		0.899+/- 0.042		
a) Color(s)		BLACK				
b) Print		ALPHA WIRE-* P/N F16033RW 33C 16 AWG (1.31mm2) TFFN SERIES F (UL) TYPE TC-ER 90C 600V OIL RES I/II SUN RES OR TYPE PLTC 90C OR C(UL) CIC CONTROL/TC 90C PVC/NYLON INS FT4 16 AWG LLXXXXXX CSA AWM I/II A/B 90C 600V FT4 CE ROHS (DATE CODE) (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	MTW	90°C Dry / 60°C Wet / 600 V <sub>RMS</sub>
	TFFN	90°C / 600 V <sub>RMS</sub>
b) Overall	тс	90°C / 600 V <sub>RMS</sub>
	EXPOSED RUN	
	SUN RES	
	PLTC	90°C
	OIL RES I/II	
2) CSA International	AWM I/II A/B	90°C / 600 V <sub>RMS</sub>
	FT4	
	C(UL) CIC CONTROL	90°C / 600V V <sub>RMS</sub>
	C(UL) TC	90°C / 600V V <sub>RMS</sub>
3) CE:	EU Low Voltage Directive 2006/95/EC	

### Environmental

1) CE: EU Directive 2011/65/EU(RoHS2):				
	This product complies with European Directive 2011/65/EU (RoHS Directive) of the European Parliament and of the Council of 8 June 2011. No Exemptions are required for RoHS Compliance on this item. Consult Alpha Wire's web site for RoHS C of C.			
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. For up-to-date information, please see Alpha's REACH SVHC Declaration.			
3) 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(static), -5 to 90°C (dynamic)			
2) Bend Radius	10X Cable Diameter(static), 10X Cable Diameter(dynamic)			
3) Pull Tension	669 Lbs, Maximum			
4) Sunlight Resistance	Yes			
Electrical Properties	(For Engineering purposes only)			
1) Voltage Rating	600 V <sub>RMS</sub>			
2) Capacitance	31 pf/ft @1 kHz, Nominal Conductor to Conductor			
3) Inductance	0.18 μH/ft, Nominal			
4) Conductor DCR	4.3 Ω/1000ft @20°C, Nominal			

### Other

Packaging	Flange x Traverse x Barrel (inches)
a) Bulk(Made-to-order)	

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## **EU/China ROHS CERTIFICATE OF COMPLIANCE**

To Whom It May Concern:

Alpha Wire Part Number: F16033RW

F16033RW, RoHS-Compliant Commencing With 8/1/2005 Production

Note: all colors and put-ups

This document certifies that the Alpha part number cited above is manufactured in accordance with Directive 2011/65/EU of the European Parliament, better known as the RoHS Directive (commonly known as RoHS 2), with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. This certification extends to amending Directive 2015/863/EU which expanded the list of restricted substances to 10 items (commonly known as RoHS 3) The reader is referred to these Directives for the specific definitions and extents of the Directives. **No Exemptions are required for RoHS Compliance on this item**. Additionally, Alpha certifies that the listed part number is in compliance with China RoHS "Marking for Control of Pollution by Electronic Information Products" standard SJ/T 11364-2014.

Substance	Maximum Control Value
Lead	0.1% by weight (1000 ppm)
Mercury	0.1% by weight (1000 ppm)
Cadmium	0.01% 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)
Bis(2-ethylhexyl) phthalate (DEHP)	0.1% by weight (1000 ppm)
Butyl benzyl phthalate (BBP)	0.1% by weight (1000 ppm)
Dibutyl phthalate (DBP)	0.1% by weight (1000 ppm)
Diisobutyl phthalate (DIBP)	0.1% by weight (1000 ppm)

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Authorized Signatory for the Alpha Wire:

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