

Customer Specification PART NO. F16012RW

Construction

Constituction	-			<u> </u>		
				Diameters (In)		
1) Component 1		12 X 1 COND				
a) Conductor		16 (65/34) AWG BC				
b) Insulation		0.016" Wall, Nom. PVC/ 0.005" Wall NYLON		ON 0.101	0.101	
(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	5	RED#4	9	RED#8	
2	RED#1	6	RED#5	10	RED#9	
3	WHITE/RED	7	RED#6	11	RED#10	
4	RED#3	8	RED#7	12	RED#11	
2) Cable Assembly		12 Components Cabled				
a) Twists:		3.0 Twists/foot (min)				
b) Core Wrap		REMAY Tape, 25% Overlap, Min.				
3) Jacket		0.065" Wall, Nom.,TPE		0.565+/- 0.028	0.565+/- 0.028	
a) Color(s)		BLACK				
b) Print		ALPHA WIRE-* P/N F16012RW 12C 16 AWG (1.31mm2) TFFN SERIES F (UL) TYPE TC-ER 90C 600V OIL RES I/II SUN RES OR TYPE PLTC 90C LLXXXXXX CSA AWM IA/B IIA/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 / 600 V _{RMS}
	TFFN	90°C / 600 V _{RMS}
b) Overall	тс	90°C / 600 V _{RMS}
	EXPOSED RUN	
	SUN RES	
	PLTC	90°C
	OIL RES I/II	
2) CSA International	AWM I/II A/B	90°C / 600 V _{RMS}
	FT4	
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(static), -5 to 90°C (dynamic)			
2) Bend Radius	10X Cable Diameter(static), 10X Cable Diameter(dynamic)			
3) Pull Tension	243 Lbs, Maximum			
4) Sunlight Resistance	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	4.2 /1000ft @20°C, Nominal			

Other

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

www.alphawire.com

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

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RoHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number:F16012RW

F16012RW, 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) Polybrominated Diphenyl Ethers (PBDE)	0.1% by weight (1000 ppm)
Including Deca-BDE	0.1% by weight (1000 ppm)

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Authorized Signatory for the Alpha Wire Company:

Dave Watson, Director of Engineering &QA

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