

# Customer Specification

## PART NO. 1942/3F

### Construction

				Diameters (In)	
1) Component 1		3 X 1 COND			
a) Conductor		16 (65/34) AWG BC		0.059	
b) Insulation		0.032" Wall, Nom. PVC		0.123	
(1) Color(s)					
Cond	Color	Cond	Color	Cond	Color
1	BLUE	2	BROWN	3	GREEN OR GREEN/YELLOW
2) Cable Assembly		3 Components Cabled			
a) Twists:		4.8 Twists/foot (min)			
3) Shield:		Alum/Mylar Tape, 25% Overlap, Min.			
a) Foil Direction		Foil Facing In			
b) Drain Wire		18 (16/30) AWG TC			
4) Jacket		0.041" Wall, Nom.,PVC		0.358+/- 0.022	
a) Color(s)		BLACK			
b) Jacket Separator		Tissue Tape, 25% Overlap, Min.			
c) Print		ALPHA WIRE-* 16-3 SJT 300V 60C UL XXXXXX-* OR C(UL) 16-3-SJT 300V SHIELDED ROHS * = Factory Code			

### Applicable Specifications

1) UL	SJT	60°C / 300 V <sub>RMS</sub>
2) C(UL)	SJT	60°C / 300 V <sub>RMS</sub>

### 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) REACH Regulation (EC 1907/2006):	
	This product does not contain any of the 16 substances listed on the European Union's REACH Substance of Very High Concern (SVHC) candidate list in excess of 0.1% mass of the item.

### Properties

Physical & Mechanical Properties	
1) Temperature Range	-20 to 60°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	73 Lbs, Maximum
Electrical Properties	
(For Engineering purposes only)	
1) Voltage Rating	300 V <sub>RMS</sub>
2) Capacitance	38 pf/ft @1 kHz, Nominal Conductor to Conductor
3) Ground Capacitance	68 pf/ft @1 kHz, Nominal
4) Inductance	0.21 μH/ft, Nominal
5) Conductor DCR	4.2 O/1000ft @20°C, Nominal
6) OA Shield DCR	5.7 O/1000ft @20°C, Nominal

## Other

1) Packaging	
a) 250 FT	
b) 100 FT	

[www.alphawire.com](http://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:1942/3F

1942/3F , RoHS-Compliant Commencing With2/1/2006Production

*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)

*The information provided in this document and disclosure is correct to the best of Alpha Wire's knowledge, information and belief at the date of its release. The information provided is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it will become part of. The intent of this document is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.*

Authorized Signatory for the Alpha Wire Company:

Dave Watson, Director of Engineering &QA

1/21/2011