

# Customer Specification

## PART NO. 2471

### Construction

				Diameters (In)	
1) Component 1		1 X 1 PAIR			
a) Conductor		16 (19/.0117) AWG TC			
b) Insulation		0.032" Wall, Nom. Polyethylene(PE)		0.123	
(1) Color(s)					
Pair	Color	Pair	Color	Pair	Color
1	BLACK, CLEAR				
c) Cabling		2 COND Cabled			
(1) Twists:		3.4 Twists/foot (min)			
2) Shield:		Alum/Mylar Tape, 25% Overlap, Min.			
a) Foil Direction		Foil Facing Out			
b) Drain Wire		18 (16/30) AWG TC			
3) Jacket		0.032" Wall, Nom.,PVC		0.314 (0.329 Max.)	
a) Color(s)		SLATE			
b) Print		ALPHA WIRE-* P/N 2471 RU AWM 2106 60C 600V VW-1 ROHS * = Factory Code			

### Applicable Specifications

1) UL	AWM/STYLE 2106	60°C / 600 V <sub>RMS</sub>
	VW-1	

### 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	-20 to 60°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	53 Lbs, Maximum
Electrical Properties	
(For Engineering purposes only)	
1) Voltage Rating	600 V <sub>RMS</sub>
2) Mutual Capacitance	20.5 pf/ft @1 kHz, Nominal
3) Ground Capacitance	37 pf/ft @1 kHz, Nominal
4) Characteristic Impedance	75
5) Inductance	0.2 µH/ft, Nominal
6) Conductor DCR	4.3 /1000ft @20°C, Nominal
7) OA Shield DCR	7 /1000ft @20°C, Nominal

## Other

1) Packaging	
a) 1000 FT	
b) 500 FT	
c) 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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Tel: 1-800-52 ALPHA (25742), Web: www.alphawire.com

## RoHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number:2471

2471 , RoHS-Compliant Commencing With3/1/2005Production

*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.***

<b>Substance</b>	<b>Maximum Control Value</b>
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:

Dave Watson, Director of Engineering &QA

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