

# Customer Specification

## PART NO. PVT1228

### Construction

		Diameters (In)
1) Component 1	1 X 1 HOOKUP	
a) Conductor	12 (52/28) AWG TC	0.098
b) Insulation	0.045" Wall, Nom. Low Smoke Zero Halogen (LSZH)	0.188+/- 0.004
(1) Color(s)	WHITE	
2) Jacket	0.032" Wall, Nom., Low Smoke Zero Halogen (LSZH)	0.248+/- 0.010
a) Color(s)	BLACK	
b) Print	ALPHA WIRE-* P/N PVT1228 12 AWG 4MM2 E331483 (UL) PV WIRE 90C WET OR DRY 600V SUN RES -40C --- TUV 2PFG 1169 1000V LSZH ROHS CE * = Factory Code	

### Applicable Specifications

1) UL	VW-1	
	SUN RES	
	-40C	
	UL 4703, PV Wire	90°C Dry / 90°C Wet / 600 V <sub>RMS</sub>
2) IEC	EN 60332-1 Flame Behavior	
	EN 60754-1 Acid Gas Generation	
	EN 60754-2 Acid Gas Generation	
	EN 61034-2 Smoke Emission	
	EN 60811-2-1 Ozone Resistance	
	EN 60228 Conductors, Class 2	
3) Other	EN-ISO 4892 UV Resistance	
	TUV 2PFG 1169/08.2007	
4) 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.

## Properties

Physical & Mechanical Properties	
1) Temperature Range	-40 to 90°C
2) Bend Radius	5X Cable Diameter(static), 4X Cable Diameter(dynamic)
3) Pull Tension	65 Lbs, Maximum
Electrical Properties (For Engineering purposes only)	
1) Voltage Rating	1000 V <sub>RMS</sub>
2) Inductance	0.05 µH/ft, Nominal
3) Conductor DCR	1.36 Ω/1000ft @20°C, Nominal

## Other

<b>Packaging</b>	Flange x Traverse x Barrel (inches)
a) 1000 FT	12 x 12 x 3.5 Continuous length
b) 100 FT	12 x 4.5 x 3.5 Continuous length
	<i>[Spool dimensions may vary slightly]</i>

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# EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: PVT1228

PVT1228 , RoHS-Compliant Commencing With 8/19/2009 Production

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, 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 this Directive for the specific definitions and extents of this Directive. **No Exemptions are required for RoHS Compliance on this item.** It should be noted that this product does not fall within the scope of Directive 2011/65/EU, but this Certificate is offered for cases where this product will be used within EEE that does fit within the Directive's scope. 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 11364-2006.

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)

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

5/16/2013