

# Customer Specification

## PART NO. PVT1028

### Construction

		Diameters (In)
1) Component 1	1 X 1 HOOKUP	
a) Conductor	10 (78/28) AWG TC	0.118
b) Insulation	0.045" Wall, Nom. Low Smoke Zero Halogen (LSZH)	0.208+/- 0.004
(1) Color(s)	WHITE	
2) Jacket	0.032" Wall, Nom., Low Smoke Zero Halogen (LSZH)	0.268+/- 0.011
a) Color(s)	BLACK	
b) Print	ALPHA WIRE-* P/N PVT1028 10 AWG 6MM <sup>2</sup> 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:	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) REACH Regulation (EC 1907/2006):	
	This product does not contain any of the substances listed on the European Union REACH Substance of Very High Concern (SVHC) candidate list, dated 30 March 2010, in excess of a concentration of 0.1% weight/weight.

## Properties

Physical & Mechanical Properties	
1) Temperature Range	-40 to 90°C
2) Bend Radius	4X Cable Diameter(static), 5X Cable Diameter(dynamic)
3) Pull Tension	97 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	0.91 /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	10 x 4 x 3.5 Continuous length
	<i>[Spool dimensions may vary slightly]</i>

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## RoHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number:PVT1028

PVT1028 , RoHS-Compliant Commencing With8/19/2009Production

*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)

*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

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