



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

Customer Specification

PART NO. PV0830

Construction

		Diameters (In)
1) Component 1	1 X 1 HOOKUP	
a) Conductor	8 (168(7x24)/30) AWG TC	0.168
b) Insulation	0.078" Wall, Nom. XLPE	0.326+/- 0.006
(1) Separator	Polyester Tape, 10% Overlap, Min.	
(2) Color(s)	BLACK	
2) Jacket	0.032" Wall, Nom.,PVC	0.390 (0.404 Max.)
a) Color(s)	BLACK	
b) Print	ALPHA WIRE-* P/N PV0830 8 AWG (UL) PV WIRE 90C WET/DRY 2000V SUN RES -40C VW-1 ROHS * = Factory Code	

Applicable Specifications

1) UL	VW-1	
	SUN RES	
	-40C	
	PV WIRE	90°C Dry / 90°C Wet / 2000 V _{RMS}

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	10X Cable Diameter
3) Pull Tension	132 Lbs, Maximum
4) Sunlight Resistance	Yes
Electrical Properties	(For Engineering purposes only)
1) Voltage Rating	2000 V _{RMS}
2) Inductance	0.05 µH/ft, Nominal
3) Conductor DCR	0.69 /1000ft @20°C, Nominal
4) Current	80 amps per conductor @30°C, Maximum

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	20 x 11 x 8 Continuous length
b) 100 FT	12 x 10 x 5 Continuous length
	[Spool dimensions may vary slightly]

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RoHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number:PV0830

PV0830 , RoHS-Compliant Commencing With7/24/2009Production

*This document certifies that the Alpha part numbers cited above are manufactured in accordancewith 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 hazardousubstances used in the manufacture of electrical and electronic equipment. The reader is referredto these Directives for the specific definitions and extents of these Directives. **No Exemptions arerequired for RoHS Compliance on this item.***

Substance
Lead

Maximum Control Value
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)	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

11/2/2012

Mouser Electronics

Authorized Distributor

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