



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

# Customer Specification

## PART NO. 6023C

### Construction

				Diameters (In)	
1) Component 1		3 X 1 PAIR			
a) Conductor		18 (16/30) AWG TC		0.047	
b) Insulation		0.016" Wall, Nom. Polypropylene(PP)		0.079	
(1) Color Code		Alpha Wire Color Code A			
Pair	Color	Pair	Color	Pair	Color
1	BLACK-RED	2	BLACK-WHITE	3	BLACK-GREEN
c) Pair		2/Cond Cabled Together			
(1) Twists:		5.3 Twists/foot (min)			
Individually Applied:					
d) Shield:		Foil Free Alum/Mylar Tape, 25% Overlap, Min.			
(1) Foil Direction		Foil Facing In			
(2) Drain Wire		20 (10/30) AWG TC			
2) Cable Assembly		3 Components Cabled			
a) Twists:		2.7 Twists/foot (min)			
b) Core Wrap		Clear Mylar Tape, 25% Overlap, Min.			
3) Jacket		0.047" Wall, Nom.,PVC		0.406 (0.421 Max.)	
a) Color(s)		SLATE			
b) Print		ALPHA WIRE-* P/N 6023C 3PR 18 AWG EXXXXX SHIELDED 75C (UL) C(UL) CMG OR AWM 2493 ROHS * = Factory Code [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]			

### Applicable Specifications

1) UL		
a) Component 1	AWM/STYLE 1992	80°C / 300 V <sub>RMS</sub>
b) Overall	AWM/STYLE 2493	60°C
	VW-1	
	CMG	75°C
2) CSA International	FT4	
	C(UL) TYPE CMG	75°C

### 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.
3) 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 75°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	99 Lbs, Maximum
Electrical Properties (For Engineering purposes only)	
1) Voltage Rating	300 V <sub>RMS</sub>
2) Characteristic Impedance	59
3) Inductance	0.18 µH/ft, Nominal
4) Mutual Capacitance	26 pf/ft @1 kHz, Nominal
5) Ground Capacitance	47 pf/ft @1 kHz, Nominal
6) Conductor DCR	7.2 /1000ft @20°C, Nominal
7) Ind. Shield DC Resistance	9.1 /1000ft @20°C, Nominal

## Other

<b>Packaging</b>	Flange x Traverse x Barrel (inches)
a) 1000 FT	20 x 11 x 8 Continuous length
b) 500 FT	16 x 11 x 8 Continuous length
c) 100 FT	12 x 10 x 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:6023C

6023C , RoHS-Compliant Commencing With 11/1/2004 Production

*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	0.01% 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)

*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

11/1/2012

# Mouser Electronics

Authorized Distributor

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