



# Customer Specification

## PART NO. M243144

### Construction

				Diameters (In)	
1) Component 1		4 X 1 PAIR			
a) Conductor		20 (7/28) AWG BC		0.030	
b) Insulation		0.010" Wall, Nom. PVC, Plenum Rated		0.058	
(1) Color Code		Alpha Wire Color Code A1			
Pair	Color	Pair	Color	Pair	Color
1	BLACK-RED	3	BLACK-GREEN		
2	BLACK-WHITE	4	BLACK-BLUE		
c) Pair		2/Cond Cabled Together			
(1) Twists:		6.0 Twists/foot (min)			
Individually Applied:					
d) Shield:		Alum/Mylar Tape, 25% Overlap, Min.			
(1) Foil Direction		Foil Facing In			
(2) Drain Wire		22 (7/30) AWG TC			
2) Cable Assembly		4 Components Cabled			
a) Twists:		3.2 Twists/foot (min)			
3) Jacket		0.020" Wall, Nom.,PVC, Plenum Rated		0.295 (0.310 Max.)	
a) Color(s)		Black, White			
b) Print		ALPHA WIRE-* P/N M243144 4PR 20 AWG (UL) C(UL) TYPE CMP 75C ROHS * = Factory Code <i>[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]</i>			

### Applicable Specifications

1) UL	CMP	75°C
	CMP	60°C
2) CSA International	C(UL) TYPE CMP	75°C
	C(UL) TYPE CMP	60°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	92 Lbs, Maximum
Electrical Properties (For Engineering purposes only)	
1) Voltage Rating	300 V <sub>RMS</sub>
2) Mutual Capacitance	42 pf/ft @1 kHz, Nominal
3) Ground Capacitance	76 pf/ft @1 kHz, Nominal
4) Characteristic Impedance	51 Ω
5) Inductance	0.19 μH/ft, Nominal
6) Conductor DCR	9.7 Ω/1000ft @20°C, Nominal
7) Component Shield DCR	13.8 Ω/1000ft @20°C, Nominal

## Other

<b>Packaging</b>	Flange x Traverse x Barrel (inches)
a) 1000 FT	12 x 10 x 5 Continuous length
b) 500 FT	12 x 4.5 x 3.5 Continuous length
c) 100 FT	6.5 x 4 x 2.5 Continuous length
d) Bulk(Made-to-order)	
	<i>[Spool dimensions may vary slightly]</i>
<b>Notes:</b>	
a) Black Jacket available as make-to-order special only,	
b) UL Temperature rating of the Black jacket is 60C only	

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# EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: M243144

M243144 , RoHS-Compliant Commencing With 11/1/2004 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

5/13/2013