2200 US Highway 27 South
Richmond, IN 47374
Tel: 1-800-52 ALPHA
Web: www.alphawire.com

Customer Specification

PART NO. M8708040

Construction

<table>
<tr><td></td><td>Diameters (In)</td><td></td></tr>
<tr><td>1) Component 1</td><td>4 X 1 PAIR</td><td></td></tr>
<tr><td>a) Conductor</td><td>18 (7/.0152) AWG Bare Copper</td><td>0.046</td></tr>
<tr><td>b) Insulation</td><td>0.016" Wall, Nom. PVC/ 0.005" Wall NYLON</td><td>0.088</td></tr>
<tr><td>(1) Print</td><td>ALPHA NUMERIC NUMBERS - WHITE CONDUCTOR ONLY
(ONE-1) ALTERNATE INVERTED 2"SPACING(CTR. TO CTR.)</td><td></td></tr>
<tr><td>(2) Color Code</td><td>Alpha Wire Color Code BW</td><td></td></tr>
<tr><td colspan="3"><table>
<tr><td>Pair</td><td>Color</td><td>Pair</td><td>Color</td><td>Pair</td><td>Color</td></tr>
<tr><td>1</td><td>BLACK-
WHITE#1</td><td>3</td><td>BLACK-
WHITE#3</td><td></td><td></td></tr>
<tr><td>2</td><td>BLACK-
WHITE#2</td><td>4</td><td>BLACK-
WHITE#4</td><td></td><td></td></tr>
</table></td></tr>
<tr><td>c) Pair</td><td>2/Cond Cabled Together</td><td></td></tr>
<tr><td>(1) Twists:</td><td>4.8 Twists/foot (min)</td><td></td></tr>
<tr><td>2) Cable Assembly</td><td>4 Components Cabled</td><td></td></tr>
<tr><td>a) Twists:</td><td>2.4 Twists/foot (min)</td><td></td></tr>
<tr><td>b) Orientation:</td><td>Components to be arranged from INSIDE LAYER to
OUTSIDE LAYER</td><td></td></tr>
<tr><td>c) Core Wrap</td><td>Clear Mylar Tape, 25% Overlap, Min.</td><td></td></tr>
<tr><td>3) Shield:</td><td>Alum/Mylar Tape, 25% Overlap, Min.</td><td></td></tr>
<tr><td>a) Foil Direction</td><td>Foil Facing In</td><td></td></tr>
<tr><td>b) Drain Wire</td><td>20 (7/28) AWG Tinned Copper</td><td></td></tr>
<tr><td>4) Jacket</td><td>0.050" Wall, Nom.,PVC</td><td>0.456 (0.482 Max.)</td></tr>
<tr><td>a) Color(s)</td><td>BLACK</td><td></td></tr>
<tr><td>b) Ripcord</td><td>1 End 810 Denier Nylon</td><td></td></tr>
<tr><td>c) Print</td><td>ALPHA WIRE-* P/N M8708040 4PR 18 AWG
EXXXXXX (UL) TYPE TC-ER 600V 90C DRY 75C WET
SUN. RES. DIR. BUR. CE ROHS
* = Factory Code</td><td></td></tr>
</table>

Applicable Specifications

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1) UL	TC	90°C / 600 V_{RMS}
	SUN RES	
	DIRECT BURIAL	
	EXPOSED RUN	
2) CE:	EU Low Voltage Directive 2014/35/EU	

Environmental

1) CE: EU Directive 2011/65/EU(RoHS2), EU Directive 2015/863/EU (RoHS3):	
	This product complies with European Directive 2011/65/EU (RoHS Directive) of the European Parliament and of the Council of 8 June 2011 and the amending Directive 2015/863/EU of 4 June 2015 . No Exemptions are required for RoHS Compliance on this item.

Properties

Physical & Mechanical Properties	
1) Temperature Range	-25 to 90°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	110 Lbs, Maximum
4) Sunlight Resistance	Yes
5) Direct Burial	Yes
Electrical Properties	(For Engineering purposes only)
1) Voltage Rating	600 V_{RMS}
2) Mutual Capacitance	32 pF/ft @1 kHz, Nominal
3) Ground Capacitance	58 pF/ft @1 kHz, Nominal
4) Characteristic Impedance	68 Ω
5) Inductance	0.19 µH/ft, Nominal
6) Conductor DCR	6.7 Ω/1000ft @20°C, Nominal
7) OA Shield DCR	7.5 Ω/1000ft @20°C, Nominal

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	24 x 14 x 12 Continuous length
b) 500 FT	18 x 14.25 x 8 Continuous length
c) 100 FT	12 x 5.94 x 5 Continuous length
d) Bulk(Made-to-order)	
	[Spool dimensions may vary slightly]

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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: M8708040

M8708040, RoHS-Compliant Commencing With 1/1/2006 Production

Note: all colors and put-ups

This document certifies that the Alpha part number cited above, including all packaging materials, is manufactured in accordance with Directive 2011/65/EU of the European Parliament, better known as the RoHS Directive (commonly known as RoHS 2), with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. This certification extends to amending Directive 2015/863/EU which expanded the list of restricted substances to 10 items (commonly known as RoHS 3). This product also complies with UK - RoHS. The reader is referred to these Directives for the specific definitions and extents of the Directives. **No Exemptions are required for RoHS Compliance on this item**. 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 11364-2014. This product is also in compliance with China RoHS 2 per GB/T 26572-2011.

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)
Bis(2-ethylhexyl) phthalate (DEHP)	0.1% by weight (1000 ppm)
Butyl benzyl phthalate (BBP)	0.1% by weight (1000 ppm)
Dibutyl phthalate (DBP)	0.1% by weight (1000 ppm)
Diisobutyl phthalate (DIBP)	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:



Dave Watson, Director of Engineering 9/4/2026

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