

# **Customer Specification**

## **PART NO. 78225**

### Construction

5 X 1 PAIR 24 (19/36) AWG Tinned Copper 0.007" Wall, Nom. Modified Polyphenylene Ether-PE	0.025
0.007" Wall, Nom. Modified Polyphenylene Ether-PE	0.025
	0.039
Alpha Wire Color Code B	
2/Cond Cabled Together	
12.0 Twists/foot (min)	
Foil Free Alum/Mylar Tape, 25% Overlap, Min.	
Foil Facing In	
24 (7/32) AWG Tinned Copper	
5 Components Cabled	
4.4 Twists/foot (min)	
Components to be arranged from INSIDE LAYER to OUTSIDE LAYER	
Nonwoven Polyester Tape, 25% Overlap, Min.	
Alum/Mylar Tape, 25% Overlap, Min.	
Foil Facing In	
24 (7/32) AWG Tinned Copper	
0.015" Wall, Nom.,Modified Polyphenylene Ether-PE	0.237 (0.250 Max.)
SLATE	
1 End 810 Denier Nylon	
ALPHA WIRE-* P/N 78225 5PR 24 AWG ECOCABLE(R) MINI RU AWM 21460 80C 300V VW-1 C(RU) AWM I A/B FT1 80C 300V CE ROHS (SEQ FOOTAGE) * = Factory Code	
	12.0 Twists/foot (min)   Foil Free Alum/Mylar Tape, 25% Overlap, Min.   Foil Facing In   24 (7/32) AWG Tinned Copper   5 Components Cabled   4.4 Twists/foot (min)   Components to be arranged from INSIDE LAYER to OUTSIDE LAYER   Nonwoven Polyester Tape, 25% Overlap, Min.   Alum/Mylar Tape, 25% Overlap, Min.   Foil Facing In   24 (7/32) AWG Tinned Copper   0.015" Wall, Nom.,Modified Polyphenylene Ether-PE   SLATE   1 End 810 Denier Nylon   ALPHA WIRE-* P/N 78225 5PR 24 AWG   ECOCABLE(R) MINI RU AWM 21460 80C 300V VW-1   C(RU) AWM I A/B FT1 80C 300V   CE ROHS (SEQ FOOTAGE)

# Applicable Specifications

1) UL	AWM/STYLE 21460	80°C / 300 V <sub>RMS</sub>
	VW-1	
2) CSA International	C(RU) AWM I A/B FT1	80°C / 300 V <sub>RMS</sub>
3) Other	Halogen-Free	
	NFPA 79 - 2015 Compliant	
4) 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.
2) REACH Regulation (EC 1907/2006):	
	This product does not contain Substances of Very High Concern (SVHC) listed on the European Union's REACH candidate list in excess of 0.1% mass of the item.

## **Properties**

Physical & Mechanical Properties		
1) Temperature Range	-40 to 80°C	
2) Bend Radius	10X Cable Diameter	
3) Pull Tension	58 Lbs, Maximum	
Electrical Properties	(For Engineering purposes only)	
1) Voltage Rating	300 V <sub>RMS</sub>	
2) Mutual Capacitance	34 pF/ft @1 kHz, Nominal	
3) Ground Capacitance	61 pF/ft @1 kHz, Nominal	
4) Characteristic Impedance	49 Ω	
5) Inductance	0.17 μH/ft, Nominal	
6) Conductor DCR	24.5 Ω/1000ft @20°C, Nominal	
7) Component Shield DCR	21.1 Ω/1000ft @20°C, Nominal	
8) OA Shield DCR	15.9 Ω/1000ft @20°C, Nominal	

## Other

Packaging	Flange x Traverse x Barrel (inches)	
a) 1000 FT	13.5 x 10 x 4 Continuous length	
b) 100 FT	10.5 x 5 x 3.5 Continuous length	
c) Bulk(Made-to-order)		
	[Spool dimensions may vary slightly]	
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#### www.alphawire.com

Alpha Wire 2200 US Highway 27 South Richmond, IN 47374

Tel: 1-800-52 ALPHA

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# **EU/UK/China ROHS CERTIFICATE OF COMPLIANCE**

To Whom It May Concern:

Alpha Wire Part Number: 78225

78225, RoHS-Compliant Commencing With 7/22/2014 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 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)

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Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering 11/19/2024

Alpha Wire 2200 US Highway 27 South Richmond, IN 47374 Tel: 1-908-925-8000