

# **Customer Specification**

#### **PART NO. 78152**

#### **Construction**

					Diameters (In)	
1) Component 1					2 X 1 PAIR	
a) Conductor					28 (19/40) AWG Tinned Copper	0.016
b) Insulation					0.007" Wall, Nom. Modified Polyphenylene Ether-PE	0.030
(1) Color Code					Alpha Wire Color Code B	
Pair Color	Pair	Color	Pair	Color		
1 WHITE- BLACK	2	WHITE- BROWN				
c) Pair					2/Cond Cabled Together	
(1) Twists:					13.7 Twists/foot (min)	
2) Cable Assembly					2 Components Cabled	
a) Twists:					9.6 Twists/foot (min)	
b) Orientation:					Components to be arranged from INSIDE LAYER to OUTSIDE LAYER	
c) Core Wrap					Nonwoven Polyester Tape, 25% Overlap, Min.	
3) Shield:					Alum/Mylar Tape, 25% Overlap, Min.	
a) Foil Direction					Foil Facing In	
b) Drain Wire					28 (7/36) AWG Tinned Copper	
4) Jacket					0.015" Wall, Nom.,Modified Polyphenylene Ether-PE	0.136 (0.146 Max.
a) Color(s)					SLATE	
b) Ripcord					1 End 810 Denier Nylon	
c) Print					ALPHA WIRE-* P/N 78152 2PR 28 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	

## **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	7.1 Lbs, Maximum	
Electrical Properties	(For Engineering purposes only)	
1) Voltage Rating	300 V <sub>RMS</sub>	
2) Mutual Capacitance	20.9 pF/ft @1 kHz, Nominal	
3) Ground Capacitance	38 pF/ft @1 kHz, Nominal	
4) Characteristic Impedance	74 Ω	
5) Inductance	0.19 μH/ft, Nominal	
6) Conductor DCR	64 Ω/1000ft @20°C, Nominal	
7) OA Shield DCR	37 Ω/1000ft @20°C, Nominal	

## Other

Packaging	Flange x Traverse x Barrel (inches)
a) 5000 FT	18 x 9 x 8 Continuous length
b) 1000 FT	10.5 x 5 x 3.5 Continuous length
c) 100 FT	6.5 x 2 x 1.9 Continuous length
d) Bulk(Made-to-order)	
	[Spool dimensions may vary slightly]
Notes:	
a) Certain put-up combinations may only be available by special order. Minimums may apply.	

#### www.alphawire.com

Alpha Wire 2200 US Highway 27 South Richmond, IN 47374

Tel: 1-800-52 ALPHA

Although Alpha Wire ("Alpha") makes every reasonable effort to ensure there accuracy at the time of publication, information and specifications described herein are subject to errors or omissions and to changes without notice, and the listing of such information and specifications does not ensure product availability.

Alpha provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Alpha be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary) whatsoever, even if Alpha had been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

ALPHA WIRE - CONFIDENTIAL AND PROPRIETARY Notice to persons receiving this document and/or technical information. This document



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

To Whom It May Concern:

Alpha Wire Part Number: 78152

78152, RoHS-Compliant Commencing With 22/07/2014 Production

Note: all colors and put-ups

This document certifies that the Alpha part number cited above is manufactured in accordance with Directive 2011/65/EU of the European 2), with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. T the list of restricted substances to 10 items (commonly known as RoHS 3) The reader is referred to these Directives for the specific definitio **Compliance on this item**. Additionally, Alpha certifies that the listed part number is in compliance with China RoHS "Marking for Control c

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 diguide 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 c Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and reg Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering & QA 31/03/2025

Alpha Wire 711 Lidgerwood Ave. Elizabeth, NJ 07207 Tel: 1-908-925-8000