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

Request a Sample

Customer Specification

PART NO. 78420

Construction

					Diameters (In)
1) Component 1		20 X 1 PAIR			
a) Conductor		20 (19/32) AWG Tinned Copper			0.040
b) Insulation		0.007" Wall, Nom. Modified Polyphenylene Ether-PE			0.054
(1) Color Code		Alpha Wire Color Code A			
Pair	Color	Pair	Color	Pair	Color
1	BLACK-RED	8	RED-GREEN	15	GREEN-WHITE
2	BLACK-WHITE	9	RED-WHITE	16	GREEN-BROWN
3	BLACK-GREEN	10	RED-BLUE	17	GREEN-ORANGE
4	BLACK-BLUE	11	RED-YELLOW	18	GREEN-YELLOW
5	BLACK-BROWN	12	RED-BROWN	19	WHITE-BLUE
6	BLACK-YELLOW	13	RED-ORANGE	20	WHITE-BROWN
7	BLACK-ORANGE	14	GREEN-BLUE		
c) Pair		2/Cond Cabled Together			
(1) Twists:		8.0 Twists/foot (min)			
2) Cable Assembly		20 Components Cabled			
a) Twists:		1.7 Twists/foot (min)			
b) 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		20 (7/28) AWG Tinned Copper			
4) Jacket		0.015" Wall, Nom.,Modified Polyphenylene Ether-PE			0.502 (0.526 Max.)
a) Color(s)		SLATE			
b) Ripcord		1 End 810 Denier Nylon			
c) Print		ALPHA WIRE-* P/N 78420 20PR 20 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_{RMS}
	VW-1	
2) CSA International	C(RU) AWM I A/B FT1	80°C / 300 V_{RMS}
3) Other	Halogen-Free	
4) CE:	EU Low Voltage Directive 2006/95/EC	

Environmental

1) CE: EU Directive 2011/65/EU(RoHS2):	
	This product complies with European Directive 2011/65/EU (RoHS Directive) of the European Parliament and of the Council of 8 June 2011. No Exemptions are required for RoHS Compliance on this item. Consult Alpha Wire's web site for RoHS C of C.
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. For up-to-date information, please see Alpha's REACH SVHC Declaration.

Properties

Physical & Mechanical Properties	
1) Temperature Range	-40 to 80°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	391 Lbs, Maximum
Electrical Properties	(For Engineering purposes only)
1) Voltage Rating	300 V_{RMS}
2) Mutual Capacitance	22.8 pf/ft @1 kHz, Nominal
3) Ground Capacitance	41 pf/ft @1 kHz, Nominal
4) Characteristic Impedance	72 Ω
5) Inductance	0.15 µH/ft, Nominal
6) Conductor DCR	9.6 Ω/1000ft @20°C, Nominal
7) OA Shield DCR	6.9 Ω/1000ft @20°C, Nominal

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	24 x 14 x 12 Continuous length
b) 100 FT	16 x 11 x 8 Continuous length
c) Bulk(Made-to-order)	
	[Spool dimensions may vary slightly]

www.alphawire.com

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

Although Alpha Wire (“Alpha”) makes every reasonable effort to ensure their 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 is confidential and is the exclusive property of ALPHA WIRE, and is merely on loan and subject to recall by ALPHA WIRE at any time. By taking possession of this document, the recipient acknowledges and agrees that this document cannot be used in any manner adverse to the interests of ALPHA WIRE, and that no portion of this document may be copied or otherwise reproduced without the prior written consent of ALPHA WIRE. In the case of conflicting contractual provisions, this notice shall govern the status of this document. ©2013 ALPHA WIRE - all rights reserved.

EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 78420

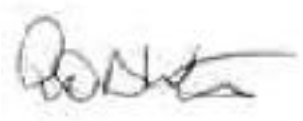
78420 , RoHS-Compliant Commencing With 7/22/2014 Production

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**. 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 — 8/6/2015

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