

Request a Sample

# Customer Specification PART NO. 78450

#### Construction

Construction	•			Diameters (In)	
1) Component 1		25 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	10	RED-BLUE	19	WHITE-BLUE
2	BLACK-WHITE	11	RED-YELLOW	20	WHITE-BROWN
3	BLACK-GREEN	12	RED-BROWN	21	WHITE-ORANGE
4	BLACK-BLUE	13	RED-ORANGE	22	WHITE-YELLOW
5	BLACK-BROWN	14	GREEN-BLUE	23	BLUE-BROWN
6	BLACK-YELLOW	15	GREEN-WHITE	24	BLUE-ORANGE
7	BLACK-ORANGE	16	GREEN-BROWN	25	BLUE-YELLOW
8	RED-GREEN	17	GREEN-ORANGE		
9	RED-WHITE	18	GREEN-YELLOW		
c) Pair		2/Cond Cabled Together			
(1) Twists:		8.0 Twists/foot (min)			
2) Cable Assembly		25 Components Cabled			
a) Twists:		1.5 Twists/foot (min)			
b) Core Wrap		Nonwoven Polyester Tape, 25% Overlap, Min.			
3) Shield:	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		0.569 (0.596 Max.)	
a) Color(s)		SLATE			
b) Ripcord		1 End 810 Denier Nylon			
c) Print		ALPHA WIRE-* P/N 78450 25PR 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			

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	
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** 

1000.000				
Physical & Mechanical Properties				
1) Temperature Range	-40 to 80°C			
2) Bend Radius	10X Cable Diameter			
3) Pull Tension	486 Lbs, Maximum			
Electrical Properties	(For Engineering purposes only)			
1) Voltage Rating	300 V <sub>RMS</sub>			
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	6.4 Ω/1000ft @20°C, Nominal			

### Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	30 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

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

To Whom It May Concern:

Alpha Wire Part Number: 78450

78450, 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

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