

# **Customer Specification**

## **PART NO. 1219/20C**

#### **Construction**

				Diame	eters ("in")	
1) Compone	nt 1	20 X 1 COND				
a) Conductor		24 (7/32) AWG Tinned Copper				
b) Insulation		0.010" Wall, Nom. PVC, Semi Rigid				
(1) Color Code		Alpha Wire Color Code D				
Cond	Color	Cond	Color	Cond	Color	
1	BLACK	8	YELLOW	15	RED/BLACK	
2	RED	9	VIOLET	16	WHITE/BLACK	
3	WHITE	10	SLATE	17	WHITE/RED	
4	GREEN	11	PINK	18	WHITE/GREEN	
5	ORANGE	12	TAN	19	WHITE/YELLOW	
6	BLUE	13	RED/GREEN	20	WHITE/BLUE	
7	BROWN	14	RED/YELLOW			
2) Cable Assembly		20 Components Cabled				
a) Twists:		3.7 Twists/foot (min)				
b) Orientation:		Components to be arranged from INSIDE LAYER to OUTSIDE LAYER				
3) Shield:		Alum/Mylar Tape, 25% Overlap, Min.				
a) Foil Direction		Foil Facing Out				
b) Drain Wire		24 (7/32) AWG Tinned Copper				
4) Jacket		0.032" Wall, Nom., PVC			(0.315 Max.)	
a) Color(s)		SLATE				
b) Print		ALPHA WIRE-* P/N 1219/20C 20C 24 AWG SHIELDED 75C (UL) TYPE CM OR AWM 2576 LLXXXXXX CSA TYPE CMG FT4 CE ROHS * = Factory Code Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.				

# **Applicable Specifications**

AWM/STYLE 2576	80°C / 150 V <sub>RMS</sub>	
СМ	75°C	
VW-1		
CMG	60°C	
FT4		
EU Low Voltage Directive 2014/35/EU		
	CM VW-1 CMG FT4	CM 75°C  VW-1  CMG 60°C  FT4

# **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.			
3) California Proposition 65	This product may contain substances known to the State of California to cause Cancer or Reproductive Harm, but is exempt from labeling based on the Consent Judgement. See the Alpha Wire website for more detail.			

# **Properties**

Physical & Mechanical Properties			
1) Temperature Range	-20 to 80°C		
2) Bend Radius	10X Cable Diameter		
3) Pull Tension	74 lbs maximum		
<b>Electrical Properties</b>	(For Engineering purposes only)		
1) Voltage Rating	300 V <sub>RMS</sub>		
2) Capacitance	31 pF/ft @1 kHz, Nominal Conductor to Conductor		
3) Ground Capacitance	56 pF/ft @1 kHz, Nominal		
4) Inductance	0.19 μH/ft, Nominal		
5) Conductor DCR	26 ω/1000ft @20°C, Nominal		
6) OA Shield DCR	15.9 ω/1000ft @20°C, Nominal		

### Other

Packaging	Flange x Traverse x Barrel (inches)	
a) 1000 FT	18 x 9 x 8 Continuous length	
b) 500 FT	12 x 10.5 x 5 Continuous length	
c) 100 FT	10.5 x 5 x 3.5 Continuous length	
	Spool dimensions may vary slightly.	

#### 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.

SpecPDFFooterConfidential



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

To Whom It May Concern:

Alpha Wire Part Number: 1219/20C

1219/20C, RoHS-Compliant Commencing With 2005/8/1 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 2024/5/18

Alpha Wire 2200 US Highway 27 South Richmond, IN 47374

Tel: 1-908-925-8000