

Customer Specification

PART NO. M13112

Construction

				Diamete	ers (In)	
1) Compon	ent 1	12 X 1 PAIR				
		22 (7/30) AWG Tinned	D) AWG Tinned Copper		0.030	
		0.010" Wall, Nom. Poly	10" Wall, Nom. Polypropylene(PP)		0.050	
(1) Color Code		Alpha Wire Color Code K				
Pair	Color	Pair	Color	Pair	Color	
1	BLACK-RED	5	BLACK-YELLOW	9	RED-GREEN	
2	BLACK-WHIT	E 6	BLACK-BROWN	10	RED-BLUE	
3	BLACK-GREEI	N 7	BLACK-ORANGE	11	RED-YELLOW	
4	BLACK-BLUE	8	RED-WHITE	12	RED-BROWN	
c) Pair		2/Cond Cabled Togeth	er			
(1) Twists:		8.0 Twists/foot (min)				
Individually	Applied:					
d) Shield:		Foil Free Alum/Mylar T	ape, 25% Overlap, Min.			
(1) Foil Direction		Foil Facing In				
(2) Drain Wire		22 (7/30) AWG Tinned Copper				
2) Cable Assembly		12 Components Cabled				
a) Twists:		2.1 Twists/foot (min)				
b) Orientation:		Components to be arra	anged from INSIDE LAYER to OU	JTSIDE		
c) Core Wra	ар	Clear Mylar Tape, 25% Overlap, Min.				
3) Jacket		0.035" Wall, Nom.,PVC		0.457 (0.	0.457 (0.479 Max.)	
a) Color(s)		SLATE				
b) Print		ALPHA WIRE-* P/N M13112 12PR 22 AWG EXXXXXX 75C SHIELDED CM (UL) C(UL) OR AWM STYLE 2919 LOW VOLTAGE COMPUTER CABLE CE ROHS * = Factory Code [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]				

Applicable Specifications

1) UL	СМ	75°C	
	AWM/STYLE 2919	80°C / 30 V _{RMS}	
2) CSA International	C(UL) TYPE CM	75°C	
3) CE:	EU Low Voltage Directive 2014,	EU Low Voltage Directive 2014/35/EU	
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Environmental

1) CE: EU Directive 2011/65/E	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 190	07/2006):
	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 information.

Properties

Physical & Mechanical Properties		
1) Temperature Range	-20 to 75°C	
2) Bend Radius	10X Cable Diameter	
3) Pull Tension	198 Lbs, Maximum	
Electrical Properties	(For Engineering purposes only)	
1) Voltage Rating	300 V _{RMS}	
2) Mutual Capacitance	25 pF/ft @1 kHz, Nominal	
3) Ground Capacitance	45 pF/ft @1 kHz, Nominal	
4) Characteristic Impedance	61 Ω	
5) Inductance	0.18 μH/ft, Nominal	
6) Conductor DCR	16.6 Ω/1000ft @20°C, Nominal	
7) Component Shield DCR	14.4 Ω/1000ft @20°C, Nominal	

Other

Packaging	Flange x Traverse x Barrel (inches)	
a) 1000 FT	24 x 14 x 12 Continuous length	
b) 500 FT	18 x 14.25 x 8 Continuous length	
c) 100 FT	12 x 5.94 x 5 Continuous length	
d) Bulk(Made-to-order)		
	[Spool dimensions may vary slightly]	
	[Spoot danchstons may vary sugnity]	

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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: M13112

M13112, RoHS-Compliant Commencing With 7/1/2005 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)

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Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering 5/3/2024

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