

Customer Specification

PART NO. M33415

Construction

						Diameters (I	n)
1) Component 1 15 X 1 CO		15 X 1 COND	ID .				
a) Conductor		20 (7/28) AWG Tinned Copper			0.038		
b) Insulation		0.016" Wall, Nom. PVC			0.070		
(1) Color Code	9	Alpha Wire Color Co	ode D				
Cond	Color	Cond	Col	or	Cond		Color
1	BLACK	6	BLU	JE	11		PINK
2	RED	7	BRO	OWN	12		TAN
3	WHITE	8	YEL	LOW	13		RED/GREEN
4	GREEN	9	VIC	LET	14		RED/YELLOW
5	ORANGE	10	SLA	ΛTE	15		RED/BLACK
2) Cable Assembly 15 Con		15 Components Cab	Components Cabled				
a) Twists: 2.5 Tw		2.5 Twists/foot (min)					
b) Orientation: Compone LAYER		·	nponents to be arranged from INSIDE LAYER to OUTSIDE ER				
3) Jacket		0.020" Wall, Nom.,PVC			0.362 (0.379 Max.)		
a) Color(s) SLATE		SLATE	VTE				
b) Print		ALPHA WIRE-* P/N M33415 15C 20 AWG EXXXXXX 75C CMG (UL) C(UL) OR AWM STYLE 2509 CE ROHS * = Factory Code [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]					

Applicable Specifications

1) UL	AWM/STYLE 2509	80°C / 300 V _{RMS}	
	CMG	75°C	
2) CSA International	C(UL) TYPE CMG	75°C	
	FT4		
3) CE:	EU Low Voltage Directive 2014/35/EU		

Environmental

1) CE: EU Directive 2	011/65/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	n (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	-20 to 80°C		
2) Bend Radius	10X Cable Diameter		
3) Pull Tension	131 Lbs, Maximum		
Electrical Properties	(For Engineering purposes only)		
1) Voltage Rating	300 V _{RMS}		
2) Capacitance	31 pF/ft @1 kHz, Nominal Conductor to Conductor		
3) Inductance	0.19 μH/ft, Nominal		
4) Conductor DCR	10.2 Ω/1000ft @20°C, Nominal		

Other

Packaging	Flange x Traverse x Barrel (inches)	
a) 1000 FT	18 x 14.25 x 8 Continuous length	
b) 500 FT	13.5 x 10 x 4 Continuous length	
c) 100 FT	12 x 5.94 x 5 Continuous length	
d) Bulk(Made-to-order)		
	[Spool dimensions may vary slightly]	

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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: M33415

M33415, RoHS-Compliant Commencing With 11/1/2004 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 4/29/2024

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