

## **Customer Specification**

## **PART NO. M39115**

#### Construction

						Diameters (In)	
1) Component 1						2 X 1 COND	
a) Conductor						20 (19/32) AWG Tinned Copper	0.040
b) Insul	ation					0.016" Wall, Nom. PVC	0.072
(1) Color Code						Alpha Wire Color Code D	
Cond	Color	Cond	Color	Cond	Color		_
1	BLACK	2	RED			1	
2) Cable	e Assembly			1		2 Components Cabled	
a) Twist	ts:					6.0 Twists/foot (min)	
b) Orientation:						Components to be arranged from INSIDE LAYER to OUTSIDE LAYER	
c) Core Wrap						Clear Mylar Tape, 25% Overlap, Min.	
3) Shield:						Alum/Mylar Tape, 25% Overlap, Min.	
a) Foil Direction						Foil Facing In	
b) Drain Wire						22 (7/30) AWG Tinned Copper	
4) Jacket						0.038" Wall, Nom.,PVC	0.227 (0.237 Max.)
a) Color(s)						SLATE	
b) Print						ALPHA WIRE-* P/N M39115 2C 20 AWG SHIELDED EXXXXX (UL) TYPE PLTC/ITC 105C SUN RES OR CL3 105C OR C(UL) CMG 105C FT4 CE ROHS * = Factory Code [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]	

## **Applicable Specifications**

1) UL	ІТС	105°C	
	SUN RES		
	PLTC	105°C	
2) CSA International	C(UL) TYPE CMG	105°C	
	FT4		
3) CE:	EU Low Voltage Directive 2014/35/EU		
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### 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.

## Properties

Physical & Mechanical Properties		
1) Temperature Range	-20 to 105°C	
2) Bend Radius	10X Cable Diameter	
3) Pull Tension	24.6 Lbs, Maximum	
4) Sunlight Resistance	Yes	
Electrical Properties	(For Engineering purposes only)	
1) Voltage Rating	300 V <sub>RMS</sub>	
2) Capacitance	46 pF/ft @1 kHz, Nominal Conductor to Conductor	
3) Ground Capacitance	83 pF/ft @1 kHz, Nominal	
4) Characteristic Impedance	46 Ω	
5) Inductance	0.19 μH/ft, Nominal	
6) Conductor DCR	9.4 Ω/1000ft @20°C, Nominal	
7) OA Shield DCR	11.7 Ω/1000ft @20°C, Nominal	

#### Other

Packaging	Flange x Traverse x Barrel (inches)	
a) 1000 FT	12 x 10.5 x 5 Continuous length	
b) 500 FT	12 x 5.94 x 5 Continuous length	
c) 100 FT	6.5 x 4 x 2.5 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: M39115

#### M39115, 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 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 3/20/2025

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## **Mouser Electronics**

Authorized Distributor

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Alpha Wire:

M39115 SL005 M39115 SL001 M39115 SL002