

Customer Specification

PART NO. M39116

Construction

				Diameters	s (In)
1) Component 1	3 X 1 COND				
a) Conductor	20 (19/32) AWG Tinned Copper			0.040	
b) Insulation	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	3	WHITE
2) Cable Assembly	3 Components Cabled				
a) Twists:	5.3 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			0.238 (0.24	19 Max.)
a) Color(s)	SLATE				
b) Print	ALPHA WIRE-* P/N M39116 3C 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

ITC	105°C	
SUN RES		
PLTC	105°C	
CL3	105°C	
C(UL) TYPE CMG	105°C	
EU Low Voltage Directive 2014/35/EU		
	SUN RES PLTC CL3 C(UL) TYPE CMG	SUN RES PLTC 105°C CL3 105°C C(UL) TYPE CMG 105°C

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 o 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 Regulati	ion (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	34 Lbs, Maximum	
4) Sunlight Resistance	Yes	
Electrical Properties	(For Engineering purposes only)	
1) Voltage Rating	300 V _{RMS}	
2) Capacitance	42 pF/ft @1 kHz, Nominal Conductor to Conductor	
3) Ground Capacitance	76 pF/ft @1 kHz, Nominal	
4) Inductance	0.19 μH/ft, Nominal	
5) Conductor DCR	9.4 Ω/1000ft @20°C, Nominal	
6) OA Shield DCR	OA Shield DCR 11.7 Ω/1000ft @20°C, Nominal	

Other

Packaging	Flange x Traverse x Barrel (inches)	
a) 1000 FT	13.5 x 10 x 4 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: M39116

M39116, 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 5/7/2024

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