

Customer Specification

PART NO. M39159

Construction

					Dian	neters (In)	
1) Component 1		4 X 1 PAIR					
a) Conductor		18 (19/30) AWG Tinned Copper		0.050			
b) Insulation		0.016" Wall, Nom. PVC		0.082			
(1) Color Code Alpha Wire Color Code		Alpha Wire Color Code B	R				
Pair	Colc)r	Pair	Color		Pair	Color
1	BLA	CK#1-RED#1	3	BLACK#3-RED#3			
2	BLA	CK#2-RED#2	4	BLACK#4-RED#4			
c) Pair		2/Cond Cabled Together					
(1) Twists:		5.3 Twists/foot (min)					
Individually Applie	ed:						
d) Shield:	Shield: Foil Free Alum/Mylar Tap		e, 25% Overlap, Min.				
(1) Foil Direction Foil Facing In		Foil Facing In					
(2) Drain Wire 20 (19/32) AWG Tinn		20 (19/32) AWG Tinned (l Copper				
2) Cable Assembly 4 Con		4 Components Cabled					
a) Twists:		2.3 Twists/foot (min)					
b) Orientation:	b) Orientation: Components to be arranged from INSIDE LAYER to OUTSIDE LA		LAYER to OUTSIDE LAYER				
c) Core Wrap	Clear Mylar Tape, 25% Overlap, Min.						
3) Jacket 0.053" Wall, Nom.,PVC					0.468 (0.487 Max.)		
a) Color(s)		SLATE					
b) Print		ALPHA WIRE-* P/N M39159 4PR 18 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	ITC	105°C	
	SUN RES		
	PLTC	105°C	
	CL3	105°C	
2) CSA International	C(UL) TYPE CMG	105°C	
3) CE:	EU Low Voltage Directive 2014/35/EU		

Environmental

1) CE: EU Directiv	e 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 Regula	tion (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	158 Lbs, Maximum	
4) Sunlight Resistance	Yes	
Electrical Properties	(For Engineering purposes only)	
1) Voltage Rating	300 V _{RMS}	
2) Mutual Capacitance	52 pF/ft @1 kHz, Nominal	
3) Ground Capacitance	94 pF/ft @1 kHz, Nominal	
4) Characteristic Impedance	41 Ω	
5) Inductance	0.17 μH/ft, Nominal	
6) Conductor DCR	6 Ω/1000ft @20°C, Nominal	
7) Component Shield DCR	7.8 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]	
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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: M39159

M39159, 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 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 5/2/2024

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