

Alpha Wire | 711 Lidgerwood Avenue, Elizabeth, NJ 07207 Tel: 1-800-52 ALPHA (25742), Web: www.alphawire.com

Customer Specification PART NO. M39139

Construction

		-		Diameters (In)	
1) Component 1		51 X 1 PAIR			
a) Conductor		22 (7/30) AWG TC		0.030	
b) Insulation		0.016" Wall, Nom. PVC		0.062	
(1) Color Code		Alpha Wire Color Code BR			
Pair	Color	Pair	Color	Pair	Color
1	BLACK#1-RED#1	18	BLACK#18-RED#18	35	BLACK#35-RED#35
2	BLACK#2-RED#2	19	BLACK#19-RED#19	36	BLACK#36-RED#36
3	BLACK#3-RED#3	20	BLACK#20-RED#20	37	BLACK#37-RED#37
4	BLACK#4-RED#4	21	BLACK#21-RED#21	38	BLACK#38-RED#38
5	BLACK#5-RED#5	22	BLACK#22-RED#22	39	BLACK#39-RED#39
6	BLACK#6-RED#6	23	BLACK#23-RED#23	40	BLACK#40-RED#40
7	BLACK#7-RED#7	24	BLACK#24-RED#24	41	BLACK#41-RED#41
8	BLACK#8-RED#8	25	BLACK#25-RED#25	42	BLACK#42-RED#42
9	BLACK#9-RED#9	26	BLACK#26-RED#26	43	BLACK#43-RED#43
10	BLACK#10-RED#10	27	BLACK#27-RED#27	44	BLACK#44-RED#44
11	BLACK#11-RED#11	28	BLACK#28-RED#28	45	BLACK#45-RED#45
12	BLACK#12-RED#12	29	BLACK#29-RED#29	46	BLACK#46-RED#46
13	BLACK#13-RED#13	30	BLACK#30-RED#30	47	BLACK#47-RED#47
14	BLACK#14-RED#14	31	BLACK#31-RED#31	48	BLACK#48-RED#48
15	BLACK#15-RED#15	32	BLACK#32-RED#32	49	BLACK#49-RED#49
16	BLACK#16-RED#16	33	BLACK#33-RED#33	50	BLACK#50-RED#50
17	BLACK#17-RED#17	34	BLACK#34-RED#34	51	BLACK#51-RED#51
c) Pair		2/Cond Cabled Together			
(1) Twists:		6.9 Twists/foot (min)			
2) Cable Assembly		51 Components Cabled			
a) Twists:		1.0 Twists/foot (min)			
b) 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		24 (7/32) AWG TC			
4) Jacket		0.075" Wall, Nom.,PVC		0.995 (1.038 Max.)	
a) Color(s)		SLATE			
b) Print		ALPHA WIRE-* P/N M39139 51PR 22 AWG SHIELDED EXXXXX (UL) TYPE PLTC/ITC 105C SUN RES OR CMG 105C OR C(UL) CMG 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	
СМС	105°C	
C(UL) TYPE CMG	105°C	
EU Low Voltage Directive 2006/95	EU Low Voltage Directive 2006/95/EC	
	SUN RES PLTC CMG C(UL) TYPE CMG	SUN RES 105°C PLTC 105°C CMG 105°C C(UL) TYPE CMG 105°C

Environmental

1) CE: EU Directive 2011/65/EU(RoHS2):	
	This product complies with European Directive 2011/65/EU (RoHS Directive) of the European Parliament and of the Council of 8 June 2011. No Exemptions are required for RoHS Compliance on this item. Consult Alpha Wire's web site for RoHS C of C.
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. For up-to-date information, please see Alpha's REACH SVHC Declaration.

Physical & Mechanical Properties		
1) Temperature Range	-20 to 105°C	
2) Bend Radius	10X Cable Diameter	
3) Pull Tension	564 Lbs, Maximum	
4) Sunlight Resistance	Yes	
Electrical Properties	(For Engineering purposes only)	
1) Voltage Rating	300 V _{RMS}	
2) Mutual Capacitance	30 pf/ft @1 kHz, Nominal	
3) Ground Capacitance	54 pf/ft @1 kHz, Nominal	
4) Characteristic Impedance	76 Ω	
5) Inductance	0.2 μH/ft, Nominal	
6) Conductor DCR	16.6 Ω/1000ft @20°C, Nominal	
7) OA Shield DCR	8.2 Ω/1000ft @20°C, Nominal	

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	48 x 26 x 18 Continuous length
b) 500 FT	36 x 14 x 12 Continuous length
c) 100 FT	24 x 14 x 12 Continuous length
d) Bulk(Made-to-order)	
	[Spool dimensions may vary slightly]

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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: M39139

M39139, RoHS-Compliant Commencing With 11/1/2004 Production

This document certifies that the Alpha part number cited above is manufactured in accordance with Directive 2011/65/EU of the European Parliament, better known as the RoHS Directive, with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. The reader is referred to this Directive for the specific definitions and extents of this Directive. **No Exemptions are required for RoHS Compliance on this item**. It should be noted that this product does not fall within the scope of Directive 2011/65/EU, but this Certificate is offered for cases where this product will be used within EEE that does fit within the Directive's scope. 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 11364-2006.

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 Doca BDE	0.1% by weight (1000 ppm)

Including Deca-BDE

0.1% by weight (1000 ppm)

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Authorized Signatory for the Alpha Wire Company:

Dave Watson, Director of Engineering & QA

5/14/2013