

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

# Customer Specification PART NO. M9740040

Construction

				Diameters (In)	
1) Component 1		4 X 1 PAIR			
a) Conductor		20 (7/.0121) AW	G BC	0.036	
b) Insulation		0.016" Wall, Nom. PVC		0.068	
(1) Print		ALPHA NUMERIC NUMBERS - WHITE CONDU (ONE-1) ALTERNATE INVERTED 2"SPACING(			
(2) Color Code		Alpha Wire Color Code BW			
Pair	Color	Pair	Color	Pair	Color
1	BLACK-WHITE#1	3	BLACK-WHITE#3		
2	BLACK-WHITE#2	4	BLACK-WHITE#4		
c) Pair		2/Cond Cabled Together			
(1) Twists:		6.0 Twists/foot (min)			
Individually Appli	ed:				
d) Shield:		Foil Free Alum/Mylar Tape, 25% Overlap, Min.			
(1) Foil Direction		Foil Facing In			
(2) Drain Wire		22 (7/30) AWG TC			
2) Component 2		1 X 1 COND			
a) Conductor		22 (7/30) AWG BC		0.030	
b) Insulation		0.016" Wall, Nom. PVC		0.062	
(1) Color(s)					
Cond	Color	Cond	Color	Cond	Color
1	ORANGE				
3) Cable Assembly		5 Components Cabled			
a) Twists:		2.7 Twists/foot (min)			
b) Core Wrap		Clear Mylar Tape, 25% Overlap, Min.			
4) Shield:		Alum/Mylar Tape, 25% Overlap, Min.			
a) Foil Direction		Foil Facing In			
b) Drain Wire		22 (7/30) AWG TC			
5) Jacket		0.053" Wall, Nom.,PVC		0.423 (0.441 N	lax.)
a) Color(s)		BLACK			
b) Ripcord		1 End 810 Denier Nylon			
c) Print		ALPHA WIRE-* P/N M9740040 4PR 20 AWG 1C 22 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

CL3	105°C	
PLTC	105°C	
ITC	105°C	
SUN RES		
C(UL) TYPE CMG	105°C	
FT4		
EU Low Voltage Directive 2006/95/EC		
	PLTC ITC SUN RES C(UL) TYPE CMG FT4	PLTC 105°C   ITC 105°C   SUN RES 105°C   C(UL) TYPE CMG 105°C   FT4 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.			
3) California Proposition 65:	The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65.			

7

### Properties

Physical & Mechanical Properties		
1) Temperature Range	-20 to 105°C	
2) Bend Radius	10X Cable Diameter	
3) Pull Tension	97 Lbs, Maximum	
4) Sunlight Resistance	Yes	
Electrical Properties	(For Engineering purposes only)	
1) Voltage Rating	300 V <sub>RMS</sub>	
2) Component 1		
a) Mutual Capacitance	47 pf/ft @1 kHz, Nominal	
b) Ground Capacitance	85 pf/ft @1 kHz, Nominal	
c) Characteristic Impedance	48 Ω	
d) Inductance	0.19 µH/ft, Nominal	
e) Conductor DCR	10.6 Ω/1000ft @20°C, Nominal	
f) Component Shield DCR	13.8 Ω/1000ft @20°C, Nominal	
g) OA Shield DCR	10.3 Ω/1000ft @20°C, Nominal	
3) Component 2		
a) Ground Capacitance	105 pf/ft @1 kHz, Nominal	
b) Inductance	0.06 µH/ft, Nominal	
c) Conductor DCR	15.3 Ω/1000ft @20°C, Nominal	
d) OA Shield DCR	10.4 Ω/1000ft @20°C, Nominal	

Flange x Traverse x Barrel (inches)	
24 x 14 x 12 Continuous length	
18 x 12 x 8 Continuous length	
12 x 10 x 5 Continuous length	
[Spool dimensions may vary slightly]	
-	18 x 12 x 8 Continuous length 12 x 10 x 5 Continuous length

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#### **EU/China ROHS CERTIFICATE OF COMPLIANCE**

To Whom It May Concern:

Alpha Wire Part Number: M9740040

M9740040, RoHS-Compliant Commencing With 1/1/2006 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 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

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