



Customer Specification

PART NO. M9740080

Construction

							Diameters (In)	
1) Component 1							8 X 1 PAIR	
a) Conductor							20 (7/.0121) AWG Bare Copper	0.036
b) Insulation							0.016" Wall, Nom. PVC	0.068
(1) Print							ALPHA NUMERIC NUMBERS - WHITE CONDUCTOR ONLY (ONE-1) ALTERNATE INVERTED 2"SPACING(CTR. TO CTR.)	
(2) C	olor Code						Alpha Wire Color Code BW	
Pair	Color	Pair	Color	F	Pair	Color]	
1	BLACK- WHITE#1	4	BLACK- WHITE#	4	/	BLACK- WHITE#7		
2	BLACK- WHITE#2	5	BLACK- WHITE#	:5	√	BLACK- WHITE#8		
3	BLACK- WHITE#3	6	BLACK- WHITE#	6				
c) Pa	ir						2/Cond Cabled Together	
(1) Tv	vists:						6.0 Twists/foot (min)	
Indiv	idually Applied	d:						
d) Sh	ield:						Foil Free Alum/Mylar Tape, 25% Overlap, Min.	
(1) Fc	oil Direction						Foil Facing In	
(2) D	rain Wire						22 (7/30) AWG Tinned Copper	
2) Co	mponent 2						1 X 1 COND	
a) Conductor							22 (7/30) AWG Bare Copper	0.030
b) Insulation							0.016" Wall, Nom. PVC	0.062
(1) Color(s)								
Cond	d Color	Со	nd Co	olor	Cond	Color		
1	ORANGE							
3) Cable Assembly							9 Components Cabled	
a) Twists:							1.9 Twists/foot (min)	
b) Or	ientation:						Components to be arranged from INSIDE LAYER to OUTSIDE LAYER	
c) Co	re Wrap						Clear Mylar Tape, 25% Overlap, Min.	
4) Sh	ield:						Alum/Mylar Tape, 25% Overlap, Min.	
a) Fo	il Direction						Foil Facing In	
b) Drain Wire							22 (7/30) AWG Tinned Copper	
5) Jacket							0.053" Wall, Nom.,PVC	0.539 (0.562 Max.
a) Color(s)							BLACK	
b) Ripcord							1 End 810 Denier Nylon	
c) Print							ALPHA WIRE-* P/N M9740080 8PR 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

1) UL	CL3	105°C
	PLTC	105°C
	ITC	105°C
	SUN RES	
2) CSA International	C(UL) TYPE CMG	105°C
	FT4	
3) CE:	EU Low Voltage Directive 2014/35/EU	

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.	
3) California Proposition 65:	This product may contain substances known to the State of California to cause Cancer or Reproductive Harm, but is exempt from labeling based on the Consent Judgement. See the Alpha Wire website for more information.	

Properties			

Physical & Mechanical Properties		
1) Temperature Range	-20 to 105°C	
2) Bend Radius	10X Cable Diameter	
3) Pull Tension	183 Lbs, Maximum	
4) Sunlight Resistance	Yes	
Electrical Properties	(For Engineering purposes only)	
1) Voltage Rating	300 V _{RMS}	
2) Component 1		
a) Mutual Capacitance	48 pF/ft @1 kHz, Nominal	
b) Ground Capacitance	86 pF/ft @1 kHz, Nominal	
c) Characteristic Impedance	47 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	9.2 Ω/1000ft @20°C, Nominal	
3) Component 2		
a) Ground Capacitance	107 pF/ft @1 kHz, Nominal	
b) Inductance	0.044 μH/ft, Nominal	
c) Conductor DCR	15.4 Ω/1000ft @20°C, Nominal	
d) OA Shield DCR	9.2 Ω/1000ft @20°C, Nominal	

Other

Flange x Traverse x Barrel (inches)	
30 x 14 x 12 Continuous length	
18 x 14.25 x 8 Continuous length	
18 x 9 x 8 Continuous length	
[Spool dimensions may vary slightly]	
	30 x 14 x 12 Continuous length 18 x 14.25 x 8 Continuous length 18 x 9 x 8 Continuous length

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SpecPDFFooterConfidential



EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: M9740080

M9740080, RoHS-Compliant Commencing With 01/01/2006 Production

Note: all colors and put-ups

This document certifies that the Alpha part number cited above is manufactured in accordance with Directive 2011/65/EU of the European 2), with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. T the list of restricted substances to 10 items (commonly known as RoHS 3) The reader is referred to these Directives for the specific definitio **Compliance on this item**. Additionally, Alpha certifies that the listed part number is in compliance with China RoHS "Marking for Control c

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 diguide 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 content information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulatory for the Alpha Wire:

Dave Watson, Director of Engineering & QA 16/09/2025

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