

Customer Specification

PART NO. M9706080

Construction

					Dia	meters (In)		
1) Component 1		8 X 1 PAII	8 X 1 PAIR					
a) Conductor		16 (7/.019	16 (7/.0192) AWG Bare Copper			0.058		
b) Insulation		0.016" Wa	0.016" Wall, Nom. PVC			0.090		
I/1) Print			PHA NUMERIC NUMBERS - WHITE CONDUCTOR ONLY NE-1) ALTERNATE INVERTED 2"SPACING(CTR. TO CTR.)					
(2) Color Code		Alpha Wii	Alpha Wire Color Code BW					
Pair	Color		Pair	Pair Color Pa		Color		
1	BLACK-WHITE#1		4	BLACK-WHITE#4	7	BLAC	K-WHITE#7	
2	BLACK-	WHITE#2	5	BLACK-WHITE#5	8	BLAC	K-WHITE#8	
3	BLACK-	WHITE#3	6	BLACK-WHITE#6				
c) Pair		2/Cond C	abled Together	ed Together				
(1) Twists:		4.8 Twists	/foot (min)					
2) Component	2	1 X 1 CO	ND					
a) Conductor		22 (7/30)	22 (7/30) AWG Bare Copper			0.030		
		0.016" Wa	0.016" Wall, Nom. PVC			0.062		
(1) Color(s)								
Cond	C	olor	Cond	Color	Cond		Color	
1	О	RANGE						
3) Cable Assembly		9 Compo	9 Components Cabled					
a) Twists:		1.6 Twists	1.6 Twists/foot (min)					
b) Orientation:		Compone LAYER	Components to be arranged from INSIDE LAYER to OUTSIDE AYER					
c) Core Wrap		Clear Myl	Clear Mylar Tape, 25% Overlap, Min.					
·		Alum/My	Alum/Mylar Tape, 25% Overlap, Min.					
a) Foil Directio	n	Foil Facin	Foil Facing In					
		18 (7/.015	18 (7/.0152) AWG Tinned Copper					
5) Jacket (0.063" Wa	0.063" Wall, Nom.,PVC			0.639 (0.663 Max.)		
a) Color(s)		BLACK	BLACK					
b) Ripcord 1 En		1 End 810	1 End 810 Denier Nylon					
c) Print SHIELD OR CL3		SHIELDED OR CL3 1 * = Factor	HA WIRE-* P/N M9706080 8PR 16 AWG 1C 22 AWG ELDED EXXXXX (UL) TYPE PLTC/ITC 105C SUN RES CL3 105C OR C(UL) CMG 105C FT4 CE ROHS Factory Code te: 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 Exemption 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	343 Lbs, Maximum			
4) Sunlight Resistance	Yes			
Electrical Properties	(For Engineering purposes only)			
1) Voltage Rating	300 V _{RMS}			
2) Component 1				
a) Mutual Capacitance	33 pF/ft @1 kHz, Nominal			
b) Ground Capacitance	59 pF/ft @1 kHz, Nominal			
c) Characteristic Impedance	65 Ω			
d) Inductance	0.17 μH/ft, Nominal			
e) Conductor DCR	4.2 Ω/1000ft @20°C, Nominal			
f) OA Shield DCR	5 Ω/1000ft @20°C, Nominal			
3) Component 2				
a) Ground Capacitance	94 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	5 Ω/1000ft @20°C, Nominal			

Other

Packaging	Flange x Traverse x Barrel (inches)	
a) 1000 FT	30 x 14 x 12 Continuous length	
b) 500 FT	24 x 14 x 12 Continuous length	
c) 100 FT	18 x 9 x 8 Continuous length	
d) Bulk(Made-to-order)		
	[Spool dimensions may vary slightly]	

www.alphawire.com

Alpha Wire 2200 US Highway 27 South Richmond, IN 47374

Tel: 1-800-52 ALPHA

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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: M9706080

M9706080, RoHS-Compliant Commencing With 1/1/2006 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 5/3/2024

Alpha Wire 2200 US Highway 27 South Richmond, IN 47374

Tel: 1-908-925-8000