

Customer Specification PART NO. M8708360

Construction

				Diameters ((ln)	
1) Component	1	36 X 1 PAIR				
a) Conductor		18 (7/.0152) A	18 (7/.0152) AWG Bare Copper		0.046	
b) Insulation		0.016" Wall, N NYLON	0.016" Wall, Nom. PVC/ 0.005" Wall NYLON		0.088	
(1) Print			ALPHA NUMERIC NUMBERS - WHITE CONDUCTOR ONLY (ONE-1) ALTERNATE INVERTED 2"SPACING(CTR. TO CTR.)			
(2) Color Code)	Alpha Wire Co	Alpha Wire Color Code BW			
Pair	Color	Pair	Color	Pair	Color	
1	BLACK- WHITE#1	13	BLACK- WHITE#13	25	BLACK- WHITE#25	
2	BLACK- WHITE#2	14	BLACK- WHITE#14	26	BLACK- WHITE#26	
3	BLACK- WHITE#3	15	BLACK- WHITE#15	27	BLACK- WHITE#27	
4	BLACK- WHITE#4	16	BLACK- WHITE#16	28	BLACK- WHITE#28	
5	BLACK- WHITE#5	17	BLACK- WHITE#17	29	BLACK- WHITE#29	
6	BLACK- WHITE#6	18	BLACK- WHITE#18	30	BLACK- WHITE#30	
7	BLACK- WHITE#7	19	BLACK- WHITE#19	31	BLACK- WHITE#31	
8	BLACK- WHITE#8	20	BLACK- WHITE#20	32	BLACK- WHITE#32	
9	BLACK- WHITE#9	21	BLACK- WHITE#21	33	BLACK- WHITE#33	
10	BLACK- WHITE#10	22	BLACK- WHITE#22	34	BLACK- WHITE#34	

11	BLACK- WHITE#11	23	BLACK- WHITE#23	35	BLACK- WHITE#35
12	BLACK- WHITE#12	24	BLACK- WHITE#24	36	BLACK- WHITE#36
c) Pair		2/Cond Cabled To	gether		
(1) Twists:		4.8 Twists/foot (mi	n)		
2) Cable Assembly		36 Components Cabled			
a) Twists:	a) Twists: 0.8 Twis		pot (min)		
b) Orientation:	Components to be arranged from INSIDE LAYER to OUTSIDE LAYER				
c) Core Wrap	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		20 (7/28) AWG Tir	nned Copper		
4) Jacket		0.085" Wall, Nom.,PVC		1.188 (1.252 Max.)	
a) Color(s)		BLACK			
b) Ripcord		1 End 810 Denier Nylon			
ALPHA WIRE-* P/N M8708360 36PR EXXXXXX (UL) TYPE TC-ER 600V 90 SUN. RES. DIR. BUR. CE ROHS * = Factory Code					

Applicable Specifications

1) UL	тс	90°C / 600 V _{RMS}
	SUN RES	
	DIRECT BURIAL	
	EXPOSED RUN	
2) CE:	EU Low Voltage Directive 20	014/35/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.			
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	1) CE: EU Directive 2011/65/EU(RoHS2), EU Directive 2015/863/EU (RoHS3):		
		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	

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.	

Properties

Physical & Mechanical Properties			
1) Temperature Range	-25 to 90°C		
2) Bend Radius	10X Cable Diameter		
3) Pull Tension	923 Lbs, Maximum		
4) Sunlight Resistance	Yes		
5) Direct Burial	Yes		
Electrical Properties	(For Engineering purposes only)		
1) Voltage Rating	600 V _{RMS}		
2) Mutual Capacitance	30 pF/ft @1 kHz, Nominal		
3) Ground Capacitance	54 pF/ft @1 kHz, Nominal		
4) Characteristic Impedance	73 Ω		
5) Inductance	0.19 μH/ft, Nominal		
6) Conductor DCR	6.7 Ω/1000ft @20°C, Nominal		
7) OA Shield DCR	4.9 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	48 x 26 x 18 Continuous length
c) 100 FT	48 x 26 x 18 Continuous length
d) Bulk(Made-to-order)	
	[Spool dimensions may vary slightly]

www.alphawire.com

Alpha Wire | 1320 City Center Drive, Suite 100, Carmel, IN 46032

Tel: 1-800-52 ALPHA (25742)

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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: M8708360

M8708360, RoHS-Compliant Commencing With 1/1/2006 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 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

8/16/2023

Alpha Wire

2200 US Highway 27 South

Richmond, IN 47374

Tel: 1-908-925-8000