



Customer Specification

PART NO. M9748020

Construction		

				Diam	eters (In)	
1) Component 1	2 X 1 PAIR					
a) Conductor	18 (7/.0152) AWG Bare Copper			0.046	;	
b) Insulation	0.016" Wall, Nom. PV0	0.016" Wall, Nom. PVC			0.078	
(1) Print	ALPHA NUMERIC NUMBERS - WHITE CONDUCTOR ONLY (ONE-1) ALTERNATE INVERTED 2"SPACING(CTR. TO CTR.)					
(2) Color Code	Alpha Wire Color Cod	e BW				
Pair C	color	Pair	Color		Pair	Color
1 B	LACK-WHITE#1	2	BLACK-WHITE#2			
c) Pair	2/Cond Cabled Toget	her	·		•	
(1) Twists:	5.3 Twists/foot (min)					
Individually Applied	·			,		
d) Shield:	Foil Free Alum/Mylar	Tape, 25% Overla	p, Min.			
(1) Foil Direction	Foil Facing In					
(2) Drain Wire	20 (7/28) AWG Tinned Copper					
2) Component 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	Color	Cond	Color	Cond		Color
1	ORANGE					
3) Cable Assembly	3 Components Cabled	I				
a) Twists:	2.8 Twists/foot (min)					
b) Orientation:	Components to be arranged from INSIDE LAYER to OUTSIDE LAYER					
c) Core Wrap	Clear Mylar Tape, 25%	Clear Mylar Tape, 25% Overlap, Min.				
4) Shield:	Alum/Mylar Tape, 25%	Alum/Mylar Tape, 25% Overlap, Min.				
a) Foil Direction	Foil Facing In					
b) Drain Wire	20 (7/28) AWG Tinned Copper					
5) Jacket	0.053" Wall, Nom.,PVC			0.397	(0.413 Max.)	
a) Color(s)	BLACK					
b) Ripcord	1 End 810 Denier Nylon					
c) Print	ALPHA WIRE-* P/N M SHIELDED EXXXXX (UI OR CL3 105C OR C(UL * = Factory Code	L) TYPE PLTC/ITC L) CMG 105C FT4	105C SUN RES		u factura l	

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/I	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 190	07/2006):
	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

to 105°C K Cable Diameter Lbs, Maximum S Ir Engineering purposes only) D V _{RMS}
Lbs, Maximum s r Engineering purposes only)
r Engineering purposes only)
r Engineering purposes only)
) V _{RMS}
pF/ft @1 kHz, Nominal
pF/ft @1 kHz, Nominal
Ω
8 μH/ft, Nominal
Ω/1000ft @20°C, Nominal
Ω/1000ft @20°C, Nominal
Ω/1000ft @20°C, Nominal
pF/ft @1 kHz, Nominal
44 μH/ft, Nominal
3 Ω/1000ft @20°C, Nominal
Ω/1000ft @20°C, Nominal

Other

Packaging Flange x Traverse x Barrel (inches)		
a) 1000 FT	18 x 14.25 x 8 Continuous length	
b) 500 FT	18 x 9 x 8 Continuous length	
c) 100 FT	12 x 5.94 x 5 Continuous length	
d) Bulk(Made-to-order)		
	[Spool dimensions may vary slightly]	

www.alphawire.com

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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: M9748020

M9748020, RoHS-Compliant Commencing With 7/1/2005 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 5/6/2024

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