



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

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Customer Specification

PART NO. M14478

Construction

?				Diameters (In)	
1) Component 1		1 X 4 COND		?	
a) Conductor		24 (7/32) AWG TC		0.024	
b) Insulation		0.012" Wall, Nom. Polyethylene(PE)		0.048	
(1) Color(s)		?		?	
Cond	Color	Cond	Color	Cond	Color
1	BLACK	3	YELLOW		?
2	RED	4	ORANGE		?
c) Cabling		4 COND Cabled		?	
(1) Twists:		8.0 Twists/foot (min)		?	
d) Shield:		Foil Free Alum/Mylar Tape, 25% Overlap, Min.		?	
(1) Foil Direction		Foil Facing In		?	
(2) Drain Wire		24 (7/32) AWG TC		?	
2) Component 2		1 X 4 COND		?	
a) Conductor		24 (7/32) AWG TC		0.024	
b) Insulation		0.012" Wall, Nom. Polyethylene(PE)		0.048	
(1) Color(s)		?		?	
Cond	Color	Cond	Color	Cond	Color
1	SLATE	3	BLUE		?
2	WHITE	4	GREEN		?
c) Cabling		4 COND Cabled		?	
(1) Twists:		8.0 Twists/foot (min)		?	
d) Shield:		Foil Free Alum/Mylar Tape, 25% Overlap, Min.		?	
(1) Foil Direction		Foil Facing In		?	
(2) Drain Wire		24 (7/32) AWG TC		?	
3) Component 3		2 X 1 COND		?	
a) Conductor		22 (7/30) AWG TC		0.030	
b) Insulation		0.015" Wall, Nom. PVC		0.060	
(1) Color(s)		?		?	
Cond	Color	Cond	Color	Cond	Color
1	WHITE	2	BLUE		?
4) Cable Assembly		4 Components Cabled		?	
a) Twists:		3.7 Twists/foot (min)		?	
5) Jacket		0.030" Wall, Nom.,PVC		0.288 (0.305 Max.)	
a) Color(s)		SLATE			
b) Print		ALPHA WIRE-* P/N M14478 ROHS * = Factory Code			

Applicable Specifications

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. 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:	
	Exempt from warning labels based on the Consent Judgment. Please see Alpha's CA Prop 65 Statement for more information.

Properties

Physical & Mechanical Properties	
1) Temperature Range	-20 to 80°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	46 Lbs, Maximum
Electrical Properties (For Engineering purposes only)	
1) Voltage Rating	350 V _{RMS}
2) Component 1	
a) Capacitance	19.1 pf/ft @1 kHz, Nominal Conductor to Conductor
b) Ground Capacitance	34.38 pf/ft @1 kHz, Nominal
c) Inductance	0.2 µH/ft, Nominal
d) Conductor DCR	26 O/1000ft @20°C, Nominal
e) Component Shield DCR	19.7 O/1000ft @20°C, Nominal
3) Component 2	
a) Capacitance	19.1 pf/ft @1 kHz, Nominal Conductor to Conductor
b) Ground Capacitance	34.38 pf/ft @1 kHz, Nominal
c) Inductance	0.2 µH/ft, Nominal
d) Conductor DCR	26 O/1000ft @20°C, Nominal
e) Component Shield DCR	19.7 O/1000ft @20°C, Nominal
4) Component 3	
a) Capacitance	29 pf/ft @1 kHz, Nominal Conductor to Conductor
b) Inductance	0.2 µH/ft, Nominal
c) Conductor DCR	16.4 O/1000ft @20°C, Nominal

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	16 x 11 x 8 Continuous length
b) 500 FT	12 x 10 x 5 Continuous length
c) 100 FT	10 x 4 x 3.5 Continuous length
?	<i>[Spool dimensions may vary slightly]</i>
Notes:	
a) Tape shield over component 1 {4/c (quad)} to be red color and Tape shield over component 2 {4/c (quad)} to be green color.	

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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: M14478

M14478 , RoHS-Compliant Commencing With 7/1/2005 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) 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.

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 & QA

9/11/2019

Alpha Wire

711 Lidgerwood Ave.

Elizabeth, NJ 07207

Tel: 1-908-925-8000