

Request a Sample

Customer Specification PART NO. M5402

Construction

				Diameters (In)		
1) Component 1		20 X 1 COND	20 X 1 COND			
a) Conductor		18 (16/30) AW	18 (16/30) AWG TC		0.047	
b) Insulation		0.016" Wall, No	0.016" Wall, Nom. PVC		0.079	
(1) Color Code		Alpha Wire Co	Alpha Wire Color Code D			
Cond	Color	Cond	Color	Cond	Color	
1	BLACK	8	YELLOW	15	RED/BLACK	
2	RED	9	VIOLET	16	WHITE/BLACK	
3	WHITE	10	SLATE	17	WHITE/RED	
4	GREEN	11	PINK	18	WHITE/GREEN	
5	ORANGE	12	TAN	19	WHITE/YELLOW	
6	BLUE	13	RED/GREEN	20	WHITE/BLUE	
7	BROWN	14	RED/YELLOW			
2) Cable Assembly		20 Component	20 Components Cabled			
a) Twists:		2.0 Twists/foot	2.0 Twists/foot (min)			
b) Core Wrap		Clear Mylar Ta	Clear Mylar Tape, 25% Overlap, Min.			
3) Shield:		Alum/Mylar Ta	Alum/Mylar Tape, 25% Overlap, Min.			
a) Foil Direction		Foil Facing Ou	Foil Facing Out			
b) Drain Wire		18 (16/30) AW	18 (16/30) AWG TC			
c) Braid		TC,70% Cover	TC,70% Coverage, Min.			
4) Jacket		0.032" Wall, No	0.032" Wall, Nom.,PVC		0.507 (0.527 Max.)	
a) Color(s)		SLATE	SLATE			
b) Ripcord		1 End 810 Den	1 End 810 Denier Nylon			
c) Print		EXXXXXX SHII AWM 2464 CE * = Factory Cod	ALPHA WIRE-* P/N M5402 20C 18 AWG EXXXXXX SHIELDED 75C CMG (UL) C(UL) OR AWM 2464 CE ROHS * = Factory Code [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]			

Applicable Specifications

1) UL	AWM/STYLE 2464	80°C / 300 V _{RMS}
	СМС	75°C
2) CSA International	FT4	
	C(UL) TYPE CMG	75°C
3) CE:	EU Low Voltage Directive 2006/95/EC	

Environmental

1) CE: EU Directive 2011/65/EU(RoHS2):				
This product complies with European Directive 2011/65/EU (RoHS Directive) of the Eur Parliament and of the Council of 8 June 2011. 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:	The outer surface materials used in the manufacture of this part meet the requirements of California Proposition 65.			

Properties

Physical & Mechanical Properties				
1) Temperature Range	-20 to 80°C			
2) Bend Radius	10X Cable Diameter			
3) Pull Tension	273 Lbs, Maximum			
Electrical Properties	(For Engineering purposes only)			
1) Voltage Rating	³⁰⁰ V _{RMS}			
2) Capacitance	51 pf/ft @1 kHz, Nominal Conductor to Conductor			
3) Ground Capacitance	92 pf/ft @1 kHz, Nominal			
4) Inductance	0.18 μH/ft, Nominal			
5) Conductor DCR	7.2 Ω/1000ft @20°C, Nominal			
6) OA Shield DCR	1.65 Ω/1000ft @20°C, Nominal			

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	24 x 14 x 12 Continuous length
b) 500 FT	20 x 11 x 8 Continuous length
c) 100 FT	16 x 11 x 8 Continuous length
d) Bulk(Made-to-order)	
	[Spool dimensions may vary slightly]

www.alphawire.com

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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: M5402

M5402, 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

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