

# **Customer Specification**

#### **PART NO. M4775**

#### **Construction**

					Diamet	ers (In)	
1) Compone	nt 1	9 X 1 PAIR					
· · · · · · · · · · · · · · · · · · ·		22 (7/30) A	WG Tinned Cop	WG Tinned Copper			
-		0.010" Wal	010" Wall, Nom. PVC, Semi Rigid				
(1) Color Code Alpha W		Alpha Wire	Color Code B		·		
Pair	Color		Pair	Color	Pair	Color	
1	WHITE-BL	ACK	4	WHITE-ORANGE	7	WHITE-BLUE	
2	WHITE-BR	OWN	5	WHITE-YELLOW	8	WHITE-VIOLET	
3	WHITE-RE	D	6	WHITE-GREEN	9	WHITE-SLATE	
c) Pair		2/Cond Ca	bled Together				
(1) Twists:		8.0 Twists/	foot (min)				
2) Cable Ass	embly	9 Compon	Components Cabled				
		2.8 Twists/	2.8 Twists/foot (min)				
b) Orientation:		Components to be arranged from INSIDE LAYER to OUTSIDE LAYER					
c) Core Wrap		Clear Myla	Clear Mylar Tape, 20% Overlap, Min.				
3) Shield:		Alum/Myla	Alum/Mylar Tape, 20% Overlap, Min.				
a) Foil Direction		Foil Facing In					
b) Drain Wire		22 (7/30) AWG Tinned Copper					
4) Jacket		0.032" Wal	0.032" Wall, Nom.,PVC			.389 Max.)	
a) Color(s)		SLATE					
b) Ripcord 1 Er		1 End 810	1 End 810 Denier Nylon				
c) Print		ALPHA WIRE-* P/N M4775 9PR 22 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	CMG	75°C	
	AWM/STYLE 2464	80°C / 300 V <sub>RMS</sub>	
2) CSA International	C(UL) TYPE CMG	75°C	
	FT4		
3) CE:	EU Low Voltage Directive 2014/35/EU		

### **Environmental**

1) CE: ELL Directive 2011/65/6	EU(RoHS2), EU Directive 2015/863/EU (RoHS3):
T) CL. LO Directive 2011/03/L	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	77/2006):
	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 80°C	
2) Bend Radius	10X Cable Diameter	
3) Pull Tension	104 Lbs, Maximum	
Electrical Properties	(For Engineering purposes only)	
1) Voltage Rating	300 V <sub>RMS</sub>	
2) Mutual Capacitance	24.2 pF/ft @1 kHz, Nominal	
3) Ground Capacitance	44 pF/ft @1 kHz, Nominal	
4) Characteristic Impedance	78 Ω	
5) Inductance	0.18 μH/ft, Nominal	
6) Conductor DCR	16.6 Ω/1000ft @20°C, Nominal	
7) OA Shield DCR	10.3 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	13.5 x 10 x 4 Continuous length	
c) 100 FT	12 x 5.94 x 5 Continuous length	
d) Bulk(Made-to-order)		
	[Spool dimensions may vary slightly]	
	[LSPOOL GRITICHS THAY YORY SIGNICY]	

#### www.alphawire.com

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## **EU/UK/China ROHS CERTIFICATE OF COMPLIANCE**

To Whom It May Concern:

Alpha Wire Part Number: M4775

M4775, RoHS-Compliant Commencing With 11/1/2004 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 5/2/2024

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