

Customer Specification PART NO. M4778

Construction

				Diameters (In)		
1) Component 1		19 X 1 PAIR				
a) Conductor		22 (7/30) AWG TC		0.030		
b) Insulation		0.010" Wall, Nom. PVC, Semi Rigid		0.050		
(1) Color Code		Alpha Wire Color Code B				
Pair	Color	Pair	Color	Pair	Color	
1	WHITE-BLACK	8	WHITE-VIOLET	15	BLACK-BLUE	
2	WHITE-BROWN	9	WHITE-SLATE	16	BLACK-VIOLET	
3	WHITE-RED	10	BLACK-BROWN	17	BLACK-SLATE	
4	WHITE-ORANGE	11	BLACK-RED	18	BROWN-RED	
5	WHITE-YELLOW	12	BLACK-ORANGE	19	BROWN-ORANGE	
6	WHITE-GREEN	13	BLACK-YELLOW			
7	WHITE-BLUE	14	BLACK-GREEN			
c) Pair		2/Cond Cabled Together				
(1) Twists:		8.0 Twists/foot (min)				
2) Cable Assembly		19 Components Cabled				
a) Twists:		2.0 Twists/foot (min)				
b) 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		22 (7/30) AWG TC				
4) Jacket		0.032" Wall, Nom.,PVC		0.481 (0.506 Max.)		
a) Color(s)		SLATE				
b) Ripcord		1 End 810 Denier Nylon				
c) Print		ALPHA WIRE-* P/N M4778 19PR 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

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

Environmental

1) CE: EU Directive 2011/65/EU(RoHS	2):			
	This product complies with European Directive 2011/65/EU (RoHS Directive) of the European 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	214 Lbs, Maximum			
Electrical Properties	(For Engineering purposes only)			
1) Voltage Rating	300 V _{RMS}			
2) Mutual Capacitance	24.9 pf/ft @1 kHz, Nominal			
3) Ground Capacitance	45 pf/ft @1 kHz, Nominal			
4) Characteristic Impedance	77 Ω			
5) Inductance	0.18 μH/ft, Nominal			
6) Conductor DCR	16.6 Ω/1000ft @20°C, Nominal	·		
7) OA Shield DCR	9.2 Ω/1000ft @20°C, Nominal	9.2 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	18 x 12 x 8 Continuous length
c) 100 FT	16 x 11 x 8 Continuous length
d) Bulk(Made-to-order)	
	[Spool dimensions may vary slightly]

Tel: 1-800-52 ALPHA (25742)

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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: M4778

M4778, RoHS-Compliant Commencing With 7/1/2005 Production

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, with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. The reader is referred to this Directive for the specific definitions and extents of this Directive. **No Exemptions are required for RoHS Compliance on this item**. It should be noted that this product does not fall within the scope of Directive 2011/65/EU, but this Certificate is offered for cases where this product will be used within EEE that does fit within the Directive's scope. 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 11364-2006.

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-BDF	0.1% by weight (1000 ppm)

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Authorized Signatory for the Alpha Wire Company:

Dave Watson, Director of Engineering & QA

5/14/2013