



Customer Specification

PART NO. M64831

Construction

		Diameters (In)			
1) Component 1		8 X 1 COND			
a) Conductor		18 (7/26) AWG TC		0.048	
b) Insulation		0.009" Wall, Nom. FEP		0.066	
(1) Color Code		Alpha Wire Color Code F			
Cond	Color	Cond	Color	Cond	Color
1	BLACK	4	GREEN	7	WHITE/BLACK
2	WHITE	5	ORANGE	8	RED/BLACK
3	RED	6	BLUE		
2) Cable Assembly		8 Components Cabled			
a) Twists:		2.4 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		20 (7/28) AWG TC			
4) Jacket		0.012" Wall, Nom., FEP		0.292 (0.304 Max.)	
a) Color(s)		SLATE			
b) Print		ALPHA WIRE-* P/N M64831 8C 18 AWG EXXXXXX SHIELDED 200C CMP (UL) C(UL) ROHS * = Factory Code <i>[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]</i>			

Applicable Specifications

1) UL	CMP	200°C
2) CSA International	C(UL) TYPE CMP	200°C
	FT6	

Environmental

1) EU Directive 2002/95/EC(RoHS):	
	All materials used in the manufacture of this part are in compliance with EU Directive 2002/95/EU regarding the restriction of use of certain hazardous substances in electrical and electronic equipment. Consult Alpha Wire's web site for compliance Date of Manufacture.

Properties

Physical & Mechanical Properties	
1) Temperature Range	-80 to 200°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	120 Lbs, Maximum
Electrical Properties	
(For Engineering purposes only)	
1) Voltage Rating	300 V _{RMS}
2) Capacitance	27 pf/ft @1 kHz, Nominal Conductor to Conductor
3) Ground Capacitance	49 pf/ft @1 kHz, Nominal
4) Inductance	0.15 µH/ft, Nominal
5) Conductor DCR	6.4 Ω/1000ft @20°C, Nominal
6) OA Shield DCR	7.5 Ω/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
d) Bulk(Made-to-order)	
<i>[Spool dimensions may vary slightly]</i>	

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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: M64831

M64831 , RoHS-Compliant Commencing With 2/1/2005 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-BDE	0.1% by weight (1000 ppm)

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Authorized Signatory for the Alpha Wire Company:

Dave Watson, Director of Engineering & QA

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