

Customer Specification

PART NO. 5100C

Construction

				Diameters	(ln)	
1) Component 1	10 X 1 C	OND				
<u> </u>) AWG Tinned Copper	VG Tinned Copper		0.024	
		Vall, Nom. PVC, Semi Rig			0.044	
		/ire Color Code E				
Cond	Color	Cond	Color	Cond	Color	
1	BLACK	5	YELLOW	9	SLATE	
2	BROWN	6	GREEN	10	WHITE	
3	RED	7	BLUE			
4	ORANGE	8	VIOLET			
2) Cable Assembly 10 Compone		ponents Cabled	·			
		ts/foot (min)				
b) Orientation: Components LAYER		nents to be arranged fror	s to be arranged from INSIDE LAYER to OUTSIDE			
c) Core Wrap Nonwoven I		en Polyester Tape, 25% (Polyester Tape, 25% Overlap, Min.			
3) Shield: Alum/Myla		ylar Tape, 25% Overlap, I	r Tape, 25% Overlap, Min.			
		Foil Facing In				
b) Drain Wire	24 (7/32	24 (7/32) AWG Tinned Copper				
4) Jacket	0.032" V	0.032" Wall, Nom.,PVC		0.248 (0.262	0.248 (0.262 Max.)	
a) Color(s) Slate, Black, Yel		ack, Yellow, Orange, Blue	e, Green, Red, Sand Beige,	White		
		10 Denier Nylon				
xTRAGUARD(OR AWM 246 c) Print VW-1 LLX CE ROHS OIL * = Factory Co		IARD(R) 1 SHIELDED (UL) M 2464 80C 300V OR AW - LLXXXXXX CSA 105C TY S OIL RESISTANT (SEQ FO ory Code	* P/N 5100C 10C 24 AWG R) 1 SHIELDED (UL) TYPE CM 105C SUN RES 4 80C 300V OR AWM 2517 105C 300V (XXXX CSA 105C TYPE CMG FT4 RESISTANT (SEQ FOOTAGE) ode t may have c(UL) or CSA markings depending upon p		acture.]	

Applicable Specifications

1) UL		
a) Component 1	AWM/STYLE 10002	105°C / 300 V _{RMS}
b) Overall	AWM/STYLE 2517	105°C / 300 V _{RMS}
	SUN RES	
	AWM/STYLE 2464	80°C / 300 V _{RMS}
	СМ	105°C
	VW-1	
2) CSA International	CMG	105°C
	FT4	
3) IEC	EN 60332-1 Flame Behavior	
	EN 60332-2 Flame Behavior	
4) Other	Oil Resistant	
5) CE:	EU Low Voltage Directive 2014/35/EU	

Environmental

	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 Exemption are required for RoHS Compliance on this item.		
2) REACH Regulation (EC 190	07/2006):		
	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	-35 to 105℃			
2) Bend Radius	10X Cable Diameter			
3) Pull Tension	39 Lbs, Maximum			
4) Sunlight Resistance	Yes			
Electrical Properties	(For Engineering purposes only)			
1) Voltage Rating	300 V _{RMS}			
2) Capacitance	31 pF/ft @1 kHz, Nominal Conductor to Conductor			
3) Ground Capacitance	56 pF/ft @1 kHz, Nominal			
4) Inductance	0.19 μH/ft, Nominal			
5) Conductor DCR	26 Ω/1000ft @20°C, Nominal			
6) OA Shield DCR	15.9 Ω/1000ft @20°C, Nominal			

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	13.5 x 10 x 4 Continuous length
b) 500 FT	12 x 5.94 x 5 Continuous length
c) 328 FT	10.5 x 5 x 3.5 Continuous length
d) 100 FT	10.5 x 5 x 3.5 Continuous length
e) Bulk(Made-to-order)	
	[Spool dimensions may vary slightly]
Notes:	
a) Oil Resistant Jacket (7d @ 60C).	

www.alphawire.com

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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 5100C

5100C, RoHS-Compliant Commencing With 8/1/2005 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 4/28/2024

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