

Customer Specification PART NO. 5450/12

Construction

				Diameters (In)		
1) Component 1		12 X 1 COND	12 X 1 COND			
a) Conductor b) Insulation (1) Color Code		14 (41/30) AWO	14 (41/30) AWG TC 0.032" Wall, Nom. PVC		0.074	
		0.032" Wall, No				
		Alpha Wire Col	Alpha Wire 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	11	WHITE/BLACK	
4	ORANGE	8	VIOLET	12	WHITE/BROWN	
2) Cable Assembly		12 Components	12 Components Cabled			
a) Twists:		1.8 Twists/foot	1.8 Twists/foot (min)			
b) Core Wrap		Nonwoven Poly	Nonwoven Polyester Tape, 25% Overlap, Min.			
3) Shield:		Alum/Mylar Tap	Alum/Mylar Tape, 25% Overlap, Min.			
a) Foil Direction		Foil Facing In	Foil Facing In			
b) Drain Wire		14 (41/30) AWO	14 (41/30) AWG TC			
4) Jacket		0.063" Wall, No	0.063" Wall, Nom.,PVC		Max.)	
a) Color(s)	Slate, Black, Yellow, Orange, Blue, Green, Red		n, Red, Sand Beige, V	Vhite		
b) Ripcord		1 End 810 Den	1 End 810 Denier Nylon			
c) Print		XTRAGUARD(F LLXXXXXX CS/ VOLTS FT4 CE * = Factory Cod	ALPHA WIRE-* P/N 5450/12 12C 14 AWG XTRAGUARD(R) 1 (UL) MTW 600V OR AWM 2501 VW-1 LLXXXXX CSA AWM I/II A/B 105C 600 VOLTS FT4 CE ROHS (SEQ FOOTAGE) * = Factory Code [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]			

Applicable Specifications

1) UL		
a) Component 1	AWM/STYLE 1015	105°C / 600 V _{RMS}
	МТW	90°C Dry / 60°C Wet / 600 V _{RMS}
b) Overall	мтw	90°C Dry / 60°C Wet / 600 V _{RMS}
	AWM/STYLE 2501	105°C / 600 V _{RMS}
	VW-1	
2) CSA International		
a) Component 1	TEW	105°C / 600 V _{RMS}
b) Overall	AWM I/II A/B	105°C / 600 V _{RMS}
	FT4	
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 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

1) Temperature Range	-30 to 105°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	419 Lbs, Maximum
4) Sunlight Resistance	Yes
Electrical Properties	(For Engineering purposes only)
1) Voltage Rating	600 V _{RMS}
2) Capacitance	46 pf/ft @1 kHz, Nominal Conductor to Conductor
3) Ground Capacitance	83 pf/ft @1 kHz, Nominal
4) Inductance	0.19 μH/ft, Nominal
5) Conductor DCR	2.8 Ω/1000ft @20°C, Nominal
6) OA Shield DCR	2.42 Ω/1000ft @20°C, Nominal

36 x 14 x 12 Continuous length 24 x 14 x 12 Continuous length
24 x 14 x 12 Continuous length
16 x 11 x 8 Continuous length
Spool dimensions may vary slightly]

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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 5450/12

5450/12, RoHS-Compliant Commencing With 8/1/2005 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)

The information provided in this document and disclosure is correct to the best of Alpha Wire's knowledge, information and belief at the date of its release. The information provided is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it will become part of. The intent of this document is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Authorized Signatory for the Alpha Wire Company:

Dave Watson, Director of Engineering & QA

4/24/2013