

Customer Specification

PART NO. 2249/12C

Construction

					Diamete	rs (In)
1) Component 1		12 X 1 PAIR				
a) Conductor		18 (16/30) AWG Tinned Copper			0.047	
b) Insulation 0		0.016" Wall, N	0.016" Wall, Nom. PVC			
(1) Color Code		Alpha Wire Color Code A				
Pair	Color		Pair	Color	Pair	Color
1	BLACK-RED		5	BLACK-BROWN	9	RED-WHITE
2	BLACK-WHITI		6	BLACK-YELLOW	10	RED-BLUE
3	BLACK-GREEN	١	7	BLACK-ORANGE	11	RED-YELLOW
4	BLACK-BLUE		8	RED-GREEN	12	RED-BROWN
c) Pair 2/Cond C		2/Cond Cable	ed Togethe	er		
(1) Twists:		5.3 Twists/foot (min)				
2) Cable Assembly		12 Components Cabled				
a) Twists:		1.5 Twists/foot (min)				
INI CIRIENTATION:		Components to be arranged from INSIDE LAYER to OUTSIDE LAYER			TSIDE	
3) Shield:		Alum/Mylar Tape, 25% Overlap, Min.				
a) Foil Direction		Foil Facing Out				
b) Drain Wire		20 (10/30) AWG Tinned Copper				
4) Jacket		0.055" Wall, Nom.,PVC			0.652 (0.6	578 Max.)
a) Color(s)		SLATE				
b) Print		ALPHA WIRE-* P/N 2249/12C 12PR 18 AWG SHIELDED 75C (UL) TYPE CM OR AWM 2464 OR C(UL) 75C TYPE CMG FT4 CE ROHS * = Factory Code [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]				

Applicable Specifications

1) UL	AWM/STYLE 2464	80°C / 300 V _{RMS}	
	СМ	75°C	
	VW-1		
2) CSA International	CMG	75°C	
	FT4		
3) CE:	EU Low Voltage Directive 2014/35/EU		

Environmental

	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)7/2006):
	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			
-20 to 80°C			
10X Cable Diameter			
309 Lbs, Maximum			
(For Engineering purposes only)			
300 V _{RMS}			
32 pF/ft @1 kHz, Nominal			
58 pF/ft @1 kHz, Nominal			
67 Ω			
0.18 μH/ft, Nominal			
7.1 Ω/1000ft @20°C, Nominal			
6.5 Ω/1000ft @20°C, Nominal			
	-20 to 80°C 10X Cable Diameter 309 Lbs, Maximum (For Engineering purposes only) 300 V _{RMS} 32 pF/ft @1 kHz, Nominal 58 pF/ft @1 kHz, Nominal 67 Ω 0.18 μH/ft, Nominal 7.1 Ω/1000ft @20°C, Nominal		

Other

Flange x Traverse x Barrel (inches)	
30 x 14 x 12 Continuous length	
24 x 14 x 12 Continuous length	
18 x 9 x 8 Continuous length	
[Spool dimensions may vary slightly]	
-	30 x 14 x 12 Continuous length 24 x 14 x 12 Continuous length 18 x 9 x 8 Continuous length

www.alphawire.com

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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 2249/12C

2249/12C, 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)

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:

Dave Watson, Director of Engineering 5/4/2024

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