



Alpha Wire | 711 Lidgerwood Avenue, Elizabeth, NJ 07207
Tel: 1-800-52 ALPHA (25742), Web: www.alphawire.com

Customer Specification

PART NO. S61221CY

Construction

			Diameters (In)		
1) Component 1		4 X 1 COND			
a) Conductor		14 (41/30) AWG TC			
b) Insulation		0.032" Wall, Nom. PVC		0.138	
(1) Print		ALPHA NUMERIC NUMBERS - 1-ONE ALTERNATING AND INVERTED			
(2) Color Code		Alpha Wire Company Color Code KX			
Cond	Color	Cond	Color	Cond	Color
1	GREEN/YELLOW	3	BLACK#2		
2	BLACK#1	4	BLACK#3		
2) Component 2		2 X 1 PAIR			
a) Conductor		18 (41/34) AWG BC			
b) Insulation		0.016" Wall, Nom. Hytrel		0.079	
(1) Print		ALPHA NUMERIC NUMBERS - 1-ONE ALTERNATING AND INVERTED			
(2) Color(s)					
Pair	Color	Pair	Color	Pair	Color
1	BLACK#5-BLACK#6	2	BLACK#7-BLACK#8		
c) Pair		2/Cond Cabled Together			
(1) Twists:		5.3 Twists/foot (min)			
Individually Applied:					
d) Shield:		Flex Alum/Mylar Tape, 25% Overlap, Min.			
(1) Foil Direction		Foil Facing Out			
(2) Drain Wire		22 (7/30) AWG TC			
(3) Braid		TC,85% Coverage, Min.			
e) Over Wrap:		Teflon(skived) Tape, 25% Overlap, Min.			
3) Cable Assembly		6 Components Cabled			
a) Twists:		2.2 Twists/foot (min)			
b) Core Wrap		REMA Y Tape, 25% Overlap, Min.			
4) Shield:		Flex Alum/Mylar Tape, 25% Overlap, Min.			
a) Foil Direction		Foil Facing Out			
b) Drain Wire		22 (7/30) AWG TC			
c) Braid		TC,85% Coverage, Min.			
5) Jacket		0.060" Wall, Nom.,TPE		0.640+/- 0.026	
a) Color(s)		ORANGE			
b) Jacket Separator		Tissue Tape, 25% Overlap, Min.			
c) Print		ALPHA WIRE-* P/N S61221CY RU AWM --- LLXXXXXX CSA AWM IA/B IIA/B 90C 600V FT1 CE ROHS * = 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	105deg;C / 600 V _{RMS}
b) Component 2	AWM/STYLE 10162	90deg;C / 600 V _{RMS}
c) Overall	AWM/STYLE 20626	90deg;C / 600 V _{RMS}
2) CSA International	AWM I/II A/B	90deg;C / 600 V _{RMS}
	FT1	
3) CE:	LVD 73/23/EEC Amendment 93/68/EEC	

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.
2) 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	-10 to 90deg;C(static), +5 to 90deg;C (dynamic)
2) Bend Radius	10X Cable Diameter(static), 12X Cable Diameter(dynamic)
3) Pull Tension	217 Lbs, Maximum
Electrical Properties (For Engineering purposes only)	
1) Voltage Rating	600 V _{RMS}
2) Component 1	
a) Capacitance	46 pf/ft @ 1 kHz, Nominal Conductor to Conductor
b) Ground Capacitance	83 pf/ft @ 1 kHz, Nominal
c) Inductance	0.19 μH/ft, Nominal
d) Conductor DCR	2.8 O/1000ft @20deg;C, Nominal
e) OA Shield DCR	1.31 O/1000ft @20deg;C, Nominal
3) Component 2	
a) Mutual Capacitance	46 pf/ft @ 1 kHz, Nominal
b) Ground Capacitance	83 pf/ft @ 1 kHz, Nominal
c) Characteristic Impedance	44 O
d) Inductance	0.18 μH/ft, Nominal
e) Conductor DCR	6.7 O/1000ft @20deg;C, Nominal
f) Component Shield DCR	3.1 O/1000ft @20deg;C, Nominal
g) OA Shield DCR	1.31 O/1000ft @20deg;C, Nominal

Other

1) Packaging	
a) 1000 FT	
b) 500 FT	
c) 100 FT	

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RoHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number:S61221CY

S61221CY , RoHS-Compliant Commencing With12/1/2005Production

*This document certifies that the Alpha part numbers cited above are manufactured in accordance with Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003, better known as the RoHS Directives, 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 these Directives for the specific definitions and extents of these Directives. **No Exemptions are required for RoHS Compliance on this item.***

Substance	Maximum Control Value
Lead	0.1% by weight (1000 ppm)
Mercury	0.1% by weight (1000 ppm)
Cadmium	0.1% 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:

A handwritten signature in black ink, appearing to read 'Dave Watson'.

Dave Watson, Director of Engineering &QA

1/21/2011