

Customer Specification

PART NO. 58431

Construction

						Diameters (In)		
1) Component 1						2 X 1 COND		
a) Conductor						18 (7/.0152) AWG BC		0.046
b) Insulation						0.009" Wall, Nom. PVC, Plenum Rated		0.064
(1) Color Code						Alpha Wire Color Code D2		
Cond	Color	Cond	Color	Cond	Color			
1	BLACK	2	WHITE					
2) Cable Assembly						2 Components Cabled		
a) Twists:						4.8 Twists/foot (min)		
3) Shield:						Alum/Mylar Tape, 25% Overlap, Min.		
a) Foil Direction						Foil Facing Out		
b) Drain Wire						22 (7/30) AWG TC		
4) Jacket						0.015" Wall, Nom.,PVC, Plenum Rated		0.162 (0.170 Max.)
a) Color(s)						SLATE		
b) Print						ALPHA WIRE-* P/N 58431 2C 18 AWG SHIELDED 75C CMP(UL) C(UL) OR 75C (UL) CL2P CE ROHS * = Factory Code <i>[Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]</i>		

Applicable Specifications

1) UL	CMP	75°C
	CL2P	75°C
2) CSA International	FT6	
	C(UL) TYPE CMP	75°C
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

Physical & Mechanical Properties	
1) Temperature Range	-5 to 75°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	31 Lbs, Maximum
Electrical Properties	
(For Engineering purposes only)	
1) Voltage Rating	300 V _{RMS}
2) Capacitance	67 pf/ft @1 kHz, Nominal Conductor to Conductor
3) Ground Capacitance	121 pf/ft @1 kHz, Nominal
4) Characteristic Impedance	32 Ω
5) Inductance	0.15 μH/ft, Nominal
6) Conductor DCR	6.6 Ω/1000ft @20°C, Nominal
7) OA Shield DCR	11.7 Ω/1000ft @20°C, Nominal

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	12 x 4.5 x 3.5 Continuous length
b) 500 FT	12 x 4.5 x 3.5 Continuous length
	<i>[Spool dimensions may vary slightly]</i>

www.alphawire.com

Alpha Wire
2200 US Highway 27 South
Richmond, IN 47374

Tel: 1-800-52 ALPHA

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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 58431

58431, RoHS-Compliant Commencing With 01/07/2004 Production

Note: all colors and put-ups

This document certifies that the Alpha part number cited above is manufactured in accordance with Directive 2011/65/EU of the European Union (RoHS 2), with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. This document also certifies that the listed part number is in compliance with the list of restricted substances to 10 items (commonly known as RoHS 3). The reader is referred to these Directives for the specific definitions of the restricted substances. **Compliance on this item.** Additionally, Alpha certifies that the listed part number is in compliance with China RoHS "Marking for Control" requirements.

Substance

Lead
Mercury
Cadmium
Hexavalent Chromium
Polybrominated Biphenyls (PBB)
Polybrominated Diphenyl Ethers (PBDE),
Including Deca-BDE
Bis(2-ethylhexyl) phthalate (DEHP)
Butyl benzyl phthalate (BBP)
Dibutyl phthalate (DBP)
Diisobutyl phthalate (DIBP)

Maximum Control Value

0.1% by weight (1000 ppm)
0.1% by weight (1000 ppm)
0.01% by weight (100 ppm)
0.1% by weight (1000 ppm)
0.1% by weight (1000 ppm)
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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 issuance. This document is intended to provide guidance 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 for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulatory requirements. Alpha Wire is an Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering & QA 31/03/2025

Alpha Wire
711 Lidgerwood Ave.
Elizabeth, NJ 07207
Tel: 1-908-925-8000