

Customer Specification

PART NO. 58414

Construction

						Diameters (In)	
1) Component 1						4 X 1 PAIR	
a) Conductor						22 (7/30) AWG BC	
b) Insulation						0.008" Wall, Nom. PVC, Plenum Rated	
(1) Color Code						Alpha Wire Color Code A1	
Pair	Color	Pair	Color	Pair	Color		
1	BLACK-RED	3	BLACK-GREEN				
2	BLACK-WHITE	4	BLACK-BLUE				
c) Pair						2/Cond Cabled Together	
(1) Twists:						8.0 Twists/foot (min)	
2) Cable Assembly						4 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						24 (7/32) AWG TC	
4) Jacket						0.015" Wall, Nom.,PVC, Plenum Rated	
a) Color(s)						SLATE	
b) Print						ALPHA WIRE-* P/N 58414 4PR 22 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>	
						0.217 (0.229 Max.)	

Applicable Specifications

1) UL	CL2P	75°C
	CMP	75°C
2) CSA International	FT6	
	C(UL) TYPE CMP	
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	48 Lbs, Maximum
Electrical Properties	
(For Engineering purposes only)	
1) Voltage Rating	300 V _{RMS}
2) Mutual Capacitance	38 pf/ft @1 kHz, Nominal
3) Ground Capacitance	68 pf/ft @1 kHz, Nominal
4) Characteristic Impedance	57 Ω
5) Inductance	0.17 μH/ft, Nominal
6) Conductor DCR	15.4 Ω/1000ft @20°C, Nominal
7) OA Shield DCR	15.9 Ω/1000ft @20°C, Nominal

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	12 x 10 x 5 Continuous length
	<i>[Spool dimensions may vary slightly]</i>

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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 58414

58414, 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 and requirements. **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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Dave Watson, Director of Engineering & QA 01/04/2025

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