

Customer Specification

PART NO. 58421

Construction

				Diameters (In)	
1) Component 1		2 X 1 COND			
a) Conductor		20 (7/.0121) AWG BC			
b) Insulation		0.008" Wall, Nom. PVC, Plenum Rated		0.052	
(1) Color Code		Alpha Wire Company Color Code D2			
Cond	Color	Cond	Color	Cond	Color
1	BLACK	2	WHITE		
2) Cable Assembly		2 Components Cabled			
a) Twists:		6.0 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		0.138 (0.145 Max.)	
a) Color(s)		SLATE			
b) Print		ALPHA WIRE-* P/N 58421 2C 20 AWG SHIELDED 75C CMP(UL) C(UL) OR 75C (UL) CL2P ROHS * = Factory Code			

Applicable Specifications

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

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) REACH Regulation (EC 1907/2006):	
	All materials used in the manufacture of this part do not appear on the EU REACH Substance of Very High Concern (SVHC) candidate list.

Properties

Physical & Mechanical Properties	
1) Temperature Range	-20 to 75°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	21.6 Lbs, Maximum
Electrical Properties	
(For Engineering purposes only)	
1) Voltage Rating	300 V _{RMS}
2) Capacitance	63 pf/ft @1 kHz, Nominal Conductor to Conductor
3) Ground Capacitance	113 pf/ft @1 kHz, Nominal
4) Characteristic Impedance	35 Ω
5) Inductance	0.16 μH/ft, Nominal
6) Conductor DCR	10.4 Ω/1000ft @20°C, Nominal
7) OA Shield DCR	13.6 Ω/1000ft @20°C, Nominal

Other

1) Packaging	
a) 1000 FT	
b) 500 FT	

www.alphawire.com

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RoHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number:58421

58421 , RoHS-Compliant Commencing With7/1/2004Production

*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)

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Authorized Signatory for the Alpha Wire Company:

Dave Watson, Director of Engineering &QA

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