

Customer Specification PART NO. 5420/7

Construction

				Diameters (In	n)	
1) Component 1		7 X 1 COND	7 X 1 COND			
a) Conductor		20 (10/30) AWG	20 (10/30) AWG TC		0.037	
b) Insulation		0.0325" Wall, No	0.0325" Wall, Nom. PVC		0.102	
(1) Color Code		Alpha Wire Colo	Alpha Wire Color Code E			
Cond	Color	Cond	Color	Cond	Color	
1	BLACK	4	ORANGE	7	BLUE	
2	BROWN	5	YELLOW			
3	RED	6	GREEN			
2) Cable Assembly		7 Components (7 Components Cabled			
a) Twists:		3.4 Twists/foot (3.4 Twists/foot (min)			
b) Core Wrap		Nonwoven Polye	Nonwoven Polyester Tape, 25% Overlap, Min.			
3) Shield:		Alum/Mylar Tap	Alum/Mylar Tape, 25% Overlap, Min.			
a) Foil Direction		Foil Facing In	Foil Facing In			
b) Drain Wire		20 (7/28) AWG	20 (7/28) AWG TC			
4) Jacket		0.063" Wall, No	0.063" Wall, Nom.,PVC		0.442 (0.465 Max.)	
a) Color(s)		Slate, Black, Ye	Slate, Black, Yellow, Orange, Blue, Green, Red, Sand Beige, White			
b) Ripcord		1 End 810 Deni	1 End 810 Denier Nylon			
c) Print		XTRAGUARD(R LLXXXXXX CSA VOLTS FT4 CE * = Factory Code	ALPHA WIRE-* P/N 5420/7 7C 20 AWG XTRAGUARD(R) 1 (UL) MTW 600V OR AWM 2501 VW-1 LLXXXXXX CSA AWM IA/B IIA/B 105C 600 VOLTS FT4 CE ROHS (SEQ FOOTAGE) * = 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	105°C / 600 V _{RMS}	
	MTW	90°C Dry / 60°C Wet / 600 V _{RMS}	
b) Overall	MTW	90°C Dry / 60°C Wet / 600 V _{RMS}	
	AWM/STYLE 2501	105°C / 600 V _{RMS}	
	VW-1		
2) CSA International			
a) Component 1	TEW	105°C / 600 V _{RMS}	
b) Overall	AWM I/II A/B	105°C / 600 V _{RMS}	
	FT4		
3) CE:	LVD 73/23/EEC Amendment 93/6	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) REACH Regulation (EC 1907/2006):				
	This product does not contain any of the substances listed on the 13 January 2010 European Union's REACH Substance of Very High Concern (SVHC) candidate list in excess of 0.1% mass of the item.			
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	-30 to 105°C	
2) Bend Radius	10X Cable Diameter	
3) Pull Tension	64 Lbs, Maximum	
4) Sunlight Resistance	Yes	
Electrical Properties	(For Engineering purposes only)	
1) Voltage Rating	600 V _{RMS}	
2) Capacitance	31 pf/ft @1 kHz, Nominal Conductor to Conductor	
3) Ground Capacitance	56 pf/ft @1 kHz, Nominal	
4) Inductance	0.24 μH/ft, Nominal	
5) Conductor DCR	11.6 /1000ft @20°C, Nominal	
6) OA Shield DCR	7.5 /1000ft @20°C, Nominal	

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	24 x 14 x 12 Continuous length
b) 500 FT	18 x 12 x 8 Continuous length
c) 100 FT	12 x 10 x 5 Continuous length
d) Bulk(Made-to-order)	
	[Spool dimensions may vary slightly]

www.alphawire.com

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RoHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number:5420/7

5420/7, RoHS-Compliant Commencing With8/1/2005Production

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) Polybrominated Diphenyl Ethers (PBDE)	0.1% by weight (1000 ppm)
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

1/21/2011