

Customer Specification PART NO. 5180C

Construction

				Diameters (In)	
1) Component 1		10 X 1 COND	10 X 1 COND			
a) Conductor		16 (19/.0117) A\	16 (19/.0117) AWG TC		0.059	
b) Insulation		0.016" Wall, Nor	0.016" Wall, Nom. PVC		0.091	
(1) Color Code		Alpha Wire Colo	Alpha Wire Color Code D			
Cond	Color	Cond	Color	Cond	Color	
1	BLACK	5	ORANGE	9	VIOLET	
2	RED	6	BLUE	10	SLATE	
3	WHITE	7	BROWN			
4	GREEN	8	YELLOW			
2) Cable Assembly		10 Components	10 Components Cabled			
a) Twists:		2.8 Twists/foot (2.8 Twists/foot (min)			
b) Core Wrap		Nonwoven Polye	Nonwoven Polyester Tape, 25% Overlap, Min.			
3) Shield:		A/P/A Tape, 25%	A/P/A Tape, 25% Overlap, Min.			
a) Drain Wire		16 (19/.0117) A\	16 (19/.0117) AWG TC			
b) Braid		TC,70% Covera	TC,70% Coverage, Min.			
4) Jacket		0.032" Wall, Nor	0.032" Wall, Nom.,PVC		0.460 (0.477 Max.)	
a) Color(s)		Slate, Black, Ye	Slate, Black, Yellow, Orange, Blue, Green, Red, Sand Beige, White			
b) Ripcord		1 End 810 Denie	1 End 810 Denier Nylon			
c) Print		XTRAGUARD(R 2464 VW-1 L CE ROHS (SEQ * = Factory Code	ALPHA WIRE-* P/N 5180C 10C 16 AWG XTRAGUARD(R) 1 SHIELDED (UL) TYPE CM 105C OR AWM 2464 VW-1 LLXXXXXX CSA 105C TYPE CMG 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 1569	105°C / 300 V _{RMS}
b) Overall		80°C / 300 V _{RMS}
	СМ	105°C
	VW-1	
2) CSA International	CMG	105°C
	FT4	
3) CE:	LVD 73/23/EEC Amendment 93/68/EEC	

Environmental

r				
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	231 Lbs, Maximum				
4) Sunlight Resistance	Yes				
Electrical Properties	(For Engineering purposes only)				
1) Voltage Rating	300 V _{RMS}				
2) Capacitance	57 pf/ft @1 kHz, Nominal Conductor to Conductor				
3) Ground Capacitance	103 pf/ft @1 kHz, Nominal				
4) Inductance	0.17 μH/ft, Nominal				
5) Conductor DCR	4.4 /1000ft @20°C, Nominal				
6) OA Shield DCR	1.78 /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]

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RoHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number:5180C

5180C, 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

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