

Customer Specification PART NO. 5459/19C

Construction

				Diameters (In)		
1) Component 1		19 X 1 PAIR				
a) Conductor		20 (7/28) AWG TC		0.038	0.038	
b) Insulation		0.016" Wall, Nom. PVC		0.070	0.070	
(1) Color Code		Alpha Wire Color Code A				
Pair	Color	Pair	Color	Pair	Color	
1	BLACK-RED	8	RED-GREEN	15	GREEN-WHITE	
2	BLACK-WHITE	9	RED-WHITE	16	GREEN-BROWN	
3	BLACK-GREEN	10	RED-BLUE	17	GREEN-ORANGE	
4	BLACK-BLUE	11	RED-YELLOW	18	GREEN-YELLOW	
5	BLACK-BROWN	12	RED-BROWN	19	WHITE-BLUE	
6	BLACK-YELLOW	13	RED-ORANGE			
7	BLACK-ORANGE	14	GREEN-BLUE			
c) Pair		2/Cond Cabled Together				
(1) Twists:		6.0 Twists/foot (min)				
2) Cable Assembly		19 Components Cabled				
a) Twists:		1.8 Twists/foot (min)				
b) Core Wrap		Nonwoven Polyester Tape, 25% Overlap, Min.		in.		
3) Shield:		Alum/Mylar Tape, 25% Overlap, Min.				
a) Foil Direction		Foil Facing In				
b) Drain Wire		20 (7/28) AWG TC				
4) Jacket		0.053" Wall, Nom.,PVC		0.689 (0.718 N	0.689 (0.718 Max.)	
a) Color(s)		Slate, Black, Yellow, Orange, Blue, Green, Red, Sand Beige, White				
b) Ripcord		1 End 810 Denier Nylon				
c) Print		ALPHA WIRE-* P/N 5459/19C 19PR 20 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

AWM/STYLE 1569	105°C / 300 V _{RMS}		
AWM/STYLE 2464	80°C / 300 V _{RMS}		
СМ	105°C		
VW-1			
CMG	105°C		
FT4			
EU Low Voltage Directive 2006/95	EU Low Voltage Directive 2006/95/EC		
	AWM/STYLE 2464 CM VW-1 CMG FT4	AWM/STYLE 2464 80°C / 300 V _{RMS} CM 105°C VW-1 CMG 105°C FT4	

Environmental

product complies with European Directive 2011/65/EU (RoHS Directive) of the European ament and of the Council of 8 June 2011. No Exemptions are required for RoHS				
pliance on this item. Consult Alpha Wire's web site for RoHS C of C.				
2) REACH Regulation (EC 1907/2006):				
product does not contain Substances of Very High Concern (SVHC) listed on the European n's REACH candidate list in excess of 0.1% mass of the item. For up-to-date information, se see Alpha's REACH SVHC Declaration.				
outer surface materials used in the manufacture of this part meet the requirements of ornia Proposition 65.				

Properties

Physical & Mechanical Properties			
1) Temperature Range	-30 to 105°C		
2) Bend Radius	10X Cable Diameter		
3) Pull Tension	341 Lbs, Maximum		
4) Sunlight Resistance	Yes		
Electrical Properties	(For Engineering purposes only)		
1) Voltage Rating	300 V _{RMS}		
2) Mutual Capacitance	32 pf/ft @1 kHz, Nominal		
3) Ground Capacitance	58 pf/ft @1 kHz, Nominal		
4) Characteristic Impedance	70 Ω		
5) Inductance	0.19 µH/ft, Nominal		
6) Conductor DCR	10.4 Ω/1000ft @20°C, Nominal		
7) OA Shield DCR	6.4 Ω/1000ft @20°C, Nominal	6.4 Ω/1000ft @20°C, Nominal	

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	36 x 14 x 12 Continuous length
b) 500 FT	24 x 14 x 12 Continuous length
c) 100 FT	16 x 11 x 8 Continuous length
d) Bulk(Made-to-order)	
	[Spool dimensions may vary slightly]

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EU/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 5459/19C

5459/19C, RoHS-Compliant Commencing With 8/1/2005 Production

This document certifies that the Alpha part number cited above is manufactured in accordance with Directive 2011/65/EU of the European Parliament, better known as the RoHS Directive, 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 this Directive for the specific definitions and extents of this Directive. **No Exemptions are required for RoHS Compliance on this item**. It should be noted that this product does not fall within the scope of Directive 2011/65/EU, but this Certificate is offered for cases where this product will be used within EEE that does fit within the Directive's scope. Additionally, Alpha certifies that the listed part number is in compliance with China RoHS "Marking for Control of Pollution by Electronic Information Products" standard SJ/T 11364-2006.

Substance	Maximum Control Value
Lead	0.1% by weight (1000 ppm)
Mercury	0.1% by weight (1000 ppm)
Cadmium	0.01% 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

4/24/2013