

Customer Specification PART NO. 5390/25C

Construction

				Diameters (I	n)	
1) Component 1		25 X 1 CONI	25 X 1 COND			
a) Conductor		18 (16/30) A	18 (16/30) AWG Tinned Copper			
b) Insulation		0.016" Wall,	0.016" Wall, Nom. PVC		0.079	
(1) Color Code		Alpha Wire C	Alpha Wire Color Code D			
Cond	Color	Cond	Color	Cond	Color	
1	BLACK	10	SLATE	19	WHITE/YELLOW	
2	RED	11	PINK	20	WHITE/BLUE	
3	WHITE	12	TAN	21	WHITE/BROWN	
4	GREEN	13	RED/GREEN	22	WHITE/ORANGE	
5	ORANGE	14	RED/YELLOW	23	WHITE/SLATE	
6	BLUE	15	RED/BLACK	24	WHITE/VIOLET	
7	BROWN	16	WHITE/BLACK	25	WHITE/BLACK/R ED	
8	YELLOW	17	WHITE/RED			
9	VIOLET	18	WHITE/GREEN			
2) Cable Assembly		25 Compone	25 Components Cabled			
a) Twists:		1.7 Twists/fo	1.7 Twists/foot (min)			
b) Orientation:		· ·	Components to be arranged from INSIDE LAYER to OUTSIDE LAYER			
c) Core Wrap			Nonwoven Polyester Tape, 20% Overlap, Min.			
3) Shield:		Alum/Mylar 1	Alum/Mylar Tape, 20% Overlap, Min.			
a) Foil Direction		Foil Facing I	Foil Facing In			
b) Drain Wire		18 (16/30) A	18 (16/30) AWG Tinned Copper			
4) Jacket		0.053" Wall,	0.053" Wall, Nom.,PVC		0.588 (0.612 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 5390/25C 25C 18 XTRAGUARD(R) 1 SHIELDED (UL) TY OR AWM 2464 80C 300V OR AWM 25 VW-1 OR C(UL) TYPE CMG 105C FT4 OIL RESISTANT (SEQ FOOTAGE) * = Factory Code [Note: Product may have c(UL) or CSA manufacture.]	YPE CM 105C SUN RES 517 105C 300V 4 CE ROHS

Applicable Specifications

1) UL		
a) Component 1	AWM/STYLE 1569	105°C / 300 V _{RMS}
b) Overall	AWM/STYLE 2517	105°C / 300 V _{RMS}
	SUN RES	
	AWM/STYLE 2464	80°C / 300 V _{RMS}
	СМ	105°C
	VW-1	
2) CSA International	C(UL) TYPE CMG	105°C
	FT4	
3) IEC	EN 60332-1 Flame Behavior	
	EN 60332-2 Flame Behavior	
4) Other	Oil Resistant	
5) CE:	EU Low Voltage Directive 2014/35/EU	

Environmental

1) CE: EU Directive 2011/65/EU(RoHS2), EU Directive 2015/863/EU (RoHS3):			
	This product complies with European Directive 2011/65/EU (RoHS Directive) of the European Parliament and of the Council of 8 June 2011 and the amending Directive 2015/863/EU of 4 June 2015. No Exemptions are required for RoHS Compliance on this item.		
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.		

	This product may contain substances known to the State of California to
3) California Proposition 65:	cause Cancer or Reproductive Harm, but is exempt from labeling based on
	the Consent Judgement. See the Alpha Wire website for more information.

Properties

Physical & Mechanical Properties		
1) Temperature Range	-30 to 105°C	
2) Bend Radius	10X Cable Diameter	
3) Pull Tension	327 Lbs, Maximum	
4) Sunlight Resistance	Yes	
Electrical Properties	(For Engineering purposes only)	
1) Voltage Rating	300 V _{RMS}	
2) Capacitance	45 pF/ft @1 kHz, Nominal Conductor to Conductor	
3) Ground Capacitance	81 pF/ft @1 kHz, Nominal	
4) Inductance	0.18 μH/ft, Nominal	
5) Conductor DCR	7.1 Ω/1000ft @20°C, Nominal	
6) OA Shield DCR	5.3 Ω/1000ft @20°C, Nominal	

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	30 x 14 x 12 Continuous length
b) 500 FT	24 x 14 x 12 Continuous length
c) 100 FT	18 x 9 x 8 Continuous length
d) Bulk(Made-to-order)	
	[Spool dimensions may vary slightly]
Notes:	
a) Oil Resistant Jacket (7d @ 60C).	

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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 5390/25C

5390/25C, RoHS-Compliant Commencing With 8/1/2005 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 Parliament, better known as the RoHS Directive (commonly known as RoHS 2), with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. This certification extends to amending Directive 2015/863/EU which expanded the list of restricted substances to 10 items (commonly known as RoHS 3). This product also complies with UK - RoHS. The reader is referred to these Directives for the specific definitions and extents of the Directives. **No Exemptions are required for RoHS Compliance on this item**. 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 11364-2014. This product is also in compliance with China RoHS 2 per GB/T 26572-2011.

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)
Bis(2-ethylhexyl) phthalate (DEHP)	0.1% by weight (1000 ppm)
Butyl benzyl phthalate (BBP)	0.1% by weight (1000 ppm)
Dibutyl phthalate (DBP)	0.1% by weight (1000 ppm)
Diisobutyl phthalate (DIBP)	0.1% by weight (1000 ppm)

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Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering

10/17/2023

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Mouser Electronics

Authorized Distributor

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Alpha Wire: 5390/25C SL005