

Customer Specification

PART NO. 5355C

Construction

						Diameters (In)		
1) Component 1						27 X 1 PAIR		
a) Conductor						20 (7/28) AWG Tinned Copper		0.038
b) Insulation						0.010" Wall, Nom. PVC, Semi Rigid		0.058
(1) Color Code						Alpha Wire Color Code B		
Pair	Color	Pair	Color	Pair	Color			
1	WHITE-BLACK	10	BLACK-BROWN	19	BROWN-ORANGE			
2	WHITE-BROWN	11	BLACK-RED	20	BROWN-YELLOW			
3	WHITE-RED	12	BLACK-ORANGE	21	BROWN-GREEN			
4	WHITE-ORANGE	13	BLACK-YELLOW	22	BROWN-BLUE			
5	WHITE-YELLOW	14	BLACK-GREEN	23	BROWN-VIOLET			
6	WHITE-GREEN	15	BLACK-BLUE	24	BROWN-SLATE			
7	WHITE-BLUE	16	BLACK-VIOLET	25	RED-ORANGE			
8	WHITE-VIOLET	17	BLACK-SLATE	26	RED-YELLOW			
9	WHITE-SLATE	18	BROWN-RED	27	RED-GREEN			
c) Pair						2/Cond Cabled Together		
(1) Twists:						8.0 Twists/foot (min)		
2) Cable Assembly						27 Components Cabled		
a) Twists:						1.4 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:						A/P/A Tape, 20% Overlap, Min.		
a) Drain Wire						20 (7/28) AWG Tinned Copper		
b) Braid						Tinned Copper,70% Coverage, Nom.		
4) Jacket						0.063" Wall, Nom.,PVC		0.749 (0.783 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 5355C 27PR 20 AWG XTRAGUARD(R) 1 SHIELDED (UL) TYPE CM 105C OR AWM 2343 80C 300V OR AWM 21895 105C 300V SUN RES 60C OIL 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

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Physical & Mechanical Properties	
1) Temperature Range	-35 to 105°C
2) Bend Radius	10X Cable Diameter
3) Pull Tension	495 Lbs, Maximum
4) Sunlight Resistance	Yes
Electrical Properties	
(For Engineering purposes only)	
1) Voltage Rating	300 V _{RMS}
2) Mutual Capacitance	26 pF/ft @1 kHz, Nominal
3) Ground Capacitance	47 pF/ft @1 kHz, Nominal
4) Characteristic Impedance	72 Ω
5) Inductance	0.17 μH/ft, Nominal
6) Conductor DCR	10.4 Ω/1000ft @20°C, Nominal
7) OA Shield DCR	1.21 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	30 x 14 x 12 Continuous length
c) 100 FT	18 x 9 x 8 Continuous length
d) Bulk(Made-to-order)	
	<i>[Spool dimensions may vary slightly]</i>

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EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 5355C

5355C, RoHS-Compliant Commencing With 8/1/2005 Production

Note: all colors and put-ups

This document certifies that the Alpha part number cited above, including all packaging materials, 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

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)

Maximum Control Value

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Authorized Signatory for the Alpha Wire:

Dave Watson, Director of Engineering 8/23/2024

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