

Customer Specification

PART NO. 9853C

Construction

Color GREEN-BLUE	Pa 2 2/Cond Cab 4.0 Twists/fo Alum/Mylar	II, Nom. Foam ir oled Together pot (min)	HDPE Color YELLOW-0	ORANGE	0.038 0.077	Pair 3	Color WHIT	E-BROWN
GREEN-BLUE	0.0195" Wa Pa 2 2/Cond Cab 4.0 Twists/fu Alum/Mylar	II, Nom. Foam ir oled Together pot (min)	Color	ORANGE	0.077 F			
GREEN-BLUE	Pa 2 2/Cond Cab 4.0 Twists/fo Alum/Mylar	ir Ied Together Dot (min)	Color	ORANGE	F			
GREEN-BLUE	2 2/Cond Cab 4.0 Twists/fr Alum/Mylar	oled Together bot (min)		ORANGE				
GREEN-BLUE	2 2/Cond Cab 4.0 Twists/fr Alum/Mylar	oled Together bot (min)		ORANGE				
lied:	2/Cond Cat 4.0 Twists/fo Alum/Mylar	oot (min)	YELLOW-0	ORANGE	3	}	WHIT	E-BROWN
1	4.0 Twists/f	oot (min)						
1	Alum/Mylar							
1	-		4.0 Twists/foot (min)					
	-							
		[.] Tape, 25% Ov	Alum/Mylar Tape, 25% Overlap, Min.					
) -	Foil Facing	Out						
	1 X 1 PAIR							
	20 (7/28) A	20 (7/28) AWG TC			0.038	0.038		
	0.010" Wall,	0.010" Wall, Nom. PVC, Semi Rigid			0.058	0.058		
Color		Pair		Color		Pair		Color
BLACK-RED)							
	2/Cond Cab	led Together		·				
	4.0 Twists/fe	4.0 Twists/foot (min)						
lied:								
	Alum/Mylar Tape, 25% Overlap, Min.							
ו	Foil Facing Out							
oly	4 Components Cabled							
	2.0 Twists/foot (min)							
in Wire	22 (7/30) AWG TC							
	Clear Mylar Tape, 25% Overlap, Min.							
	Alum/Mylar Tape, 25% Overlap, Min.							
	Foil Facing Out							
	TC,95% Coverage, Min.							
	0.035" Wall, Nom.,PVC			0.401	0.401 (0.425 Max.)			
	SLATE							
	ALPHA WIRE-* P/N 9853C IEEE 802.3 TRANSCEIVER CABLE 4PR 20AWG SHIELDED 75C (UL) CM OR C(UL) CMG FT4 CE ROHS * = Factory Code [Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.]				ture.]			
	Color BLACK-RED lied:	20 (7/28) AV 0.010" Wall, Color BLACK-RED 2/Cond Cab 4.0 Twists/fd lied: Alum/Mylar Foil Facing 0 2.0 Twists/fd 22 (7/30) AV Clear Mylar Alum/Mylar Clear Mylar Alum/Mylar Foil Facing 0 7C,95% Cov 0.035" Wall, SLATE ALPHA WIR IEEE 802.3 T SHIELDED 7 CE ROHS * = Factory	20 (7/28) AWG TC 0.010" Wall, Nom. PVC, Se Color Pair BLACK-RED Pair BLACK-RED 2/Cond Cabled Together 4.0 Twists/foot (min) lied: Alum/Mylar Tape, 25% Ov Foil Facing Out Alum/Mylar Tape, 25% Ov Second Second Second Second Clear Mylar Tape, 25% Ov Alum/Mylar Tape, 25% Ov Alum/Mylar Tape, 25% Ov Alum/Mylar Tape, 25% Ov Alum/Mylar Tape, 25% Ov SLATE Clear Mylar Second Sec	20 (7/28) AWG TC 0.010" Wall, Nom. PVC, Semi Rigid Color Pair BLACK-RED 2 2/Cond Cabled Together 4.0 Twists/foot (min) lied: Alum/Mylar Tape, 25% Overlap, Min. Foil Facing Out Ny 4 Components Cabled 2.0 Twists/foot (min) in Wire 22 (7/30) AWG TC Clear Mylar Tape, 25% Overlap, Min. Alum/Mylar Tape, 25% Overlap, Min. Alum/Mylar Tape, 25% Overlap, Min. Foil Facing Out TC,95% Coverage, Min. 0.035" Wall, Nom.,PVC SLATE ALPHA WIRE-* P/N 9853C IEEE 802.3 TRANSCEIVER CABLE 4PR SHIELDED 75C (UL) CM OR C(UL) CM CE ROHS * = Factory Code	20 (7/28) AWG TC 0.010" Wall, Nom. PVC, Semi Rigid Color BLACK-RED 2/Cond Cabled Together 4.0 Twists/foot (min) lied: Alum/Mylar Tape, 25% Overlap, Min. Foil Facing Out bly 4 Components Cabled 2.0 Twists/foot (min) in Wire 22 (7/30) AWG TC Clear Mylar Tape, 25% Overlap, Min. Foil Facing Out O.035" Wall, Nom.,PVC SLATE ALPHA WIRE-* P/N 9853C IEEE 802.3 TRANSCEIVER CABLE 4PR 20AWG SHIELDED 75C (UL) CM OR C(UL) CMG FT4 CE ROHS * = Factory Code	20 (7/28) AWG TC 0.038 0.010" Wall, Nom. PVC, Semi Rigid 0.058 0.010" Wall, Nom. PVC, Semi Rigid 0.058 Color Pair Color BLACK-RED 2/Cond Cabled Together 4.0 Twists/foot (min) lied: 4.0 Twists/foot (min) 1 Iied: Alum/Mylar Tape, 25% Overlap, Min. 1 Foil Facing Out 1 1 vily 4 Components Cabled 1 2.0 Twists/foot (min) 1 1 in Wire 22 (7/30) AWG TC 1 Clear Mylar Tape, 25% Overlap, Min. 1 1 Alum/Mylar Tape, 25% Overlap, Min. 1 1 Foil Facing Out 1 1 1 In Wire 22 (7/30) AWG TC 1 1 O.035" Wall, Nom.,PVC 0.401 for the temponenee (temponenee) (temponee) (tempo	20 (7/28) AWG TC 0.038 0.010" Wall, Nom. PVC, Semi Rigid 0.058 Color Pair 0.058 BLACK-RED Pair Pair 2/Cond Cabled Together 4.0 Twists/foot (min) 1 Ied: Alum/Mylar Tape, 25% Overlap, Min. 1 Foil Facing Out 1 1 V 4 Components Cabled 2.0 Twists/foot (min) In Wire 22 (7/30) AWG TC 1 Clear Mylar Tape, 25% Overlap, Min. 1 1 Alum/Mylar Tape, 25% Overlap, Min. 1 1 In Wire 22 (7/30) AWG TC 1 1 Clear Mylar Tape, 25% Overlap, Min. 1 1 1 Alum/Mylar Tape, 25% Overlap, Min. 1 1 1 Foil Facing Out 1 1 1 1 Gloar Mylar Tape, 25% Overlap, Min. 1 1 1 1 Joint Foil Facing Out 1 1 1 1 1 SLATE 0.035" Wall, Nom.,PVC 0.401 (0.425 Max.) 1 1 1 1 1 1 1 1 1	20 (7/28) AWG TC 0.038 0.010" Wall, Nom. PVC, Semi Rigid 0.058 Color Pair Color BLACK-RED Pair 2/Cond Cabled Together 4.0 Twists/foot (min) lied: Alum/Mylar Tape, 25% Overlap, Min. Foil Facing Out Foil Facing Out ling: Color Twists/foot (min) in Wire 22 (7/30) AWG TC Clear Mylar Tape, 25% Overlap, Min. Clear Mylar Tape, 25% Overlap, Min. Alum/Mylar Tape, 25% Overlap, Min. Alum/Mylar Tape, 25% Overlap, Min. Clear Mylar Tape, 25% Overlap, Min. Clear Mylar Tape, 25% Overlap, Min. Alum/Mylar Tape, 25% Overlap, Min. Clear Mylar Tape, 25% Overlap, Min. Glear Mylar Tape, 25% Overlap, Min. Foil Facing Out TC,95% Coverage, Min. O.035" Wall, Nom.,PVC 0.035" Wall, Nom.,PVC 0.401 (0.425 Max.) SLATE ALPHA WIRE-* P/N 9853C IEEE 802.3 TRANSCEIVER CABLE 4PR 20AWG SHIELDED 75C (UL) CM OR C(UL) CMG FT4 CE ROHS * = Factory Code

Applicable Specifications

1) UL	СМ	75°C
2) CSA International	C(UL) TYPE CMG	75°C
	FT4	
3) CE:	EU Low Voltage Directive 2006/95/EC	

Environmental

1) CE: EU Directive 2011/65/E	U(RoHS2):
	This product complies with European Directive 2011/65/EU (RoHS Directive) of the European Parliament and of the Council of 8 June 2011. No Exemptions are required for RoHS Compliance on this item. Consult Alpha Wire's web site for <u>RoHS C of C</u> .
2) REACH Regulation (EC 190	7/2006):
	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. For up-to-date information, please see <u>Alpha's REACH SVHC Declaration</u> .
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	-20 to 75°C	
2) Bend Radius	10X Cable Diameter	
3) Pull Tension	96 Lbs, Maximum	
Electrical Properties	(For Engineering purposes only)	
1) Voltage Rating	300 V _{RMS}	
2) Component 1		
a) Characteristic Impedance	78 Ω +/- 5	
b) Inductance	0.2 μH/ft, Nominal	
c) Mutual Capacitance	16.7 pf/ft @1 kHz, Nominal	
d) Ground Capacitance	29.5 pf/ft @1 kHz, Nominal	
e) Velocity of Propagation	78 %	
f) Conductor DCR	10.2 Ω/1000ft @20°C, Nominal	
g) Ind. Shield DC Resistance	5.2 Ω/1000ft @20°C, Nominal	
h) Attenuation, Max dB/50M	3 @ 10 MHz	
3) Component 2		
a) Mutual Capacitance	45 pf/ft @1 kHz, Nominal	
b) Conductor DCR	10.2 Ω/1000ft @20°C, Nominal	
c) Ind. Shield DC Resistance	5.2 Ω/1000ft @20°C, Nominal	
4) OA Shield DCR	2 Ω/1000ft @20°C, Nominal	

Other

Packaging	Flange x Traverse x Barrel (inches)
a) 1000 FT	20 x 11 x 8 Continuous length
	[Spool dimensions may vary slightly]

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Tel: 1-800-52 ALPHA

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💋 AlphaWire

EU/UK/China ROHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: 9853C

9853C, RoHS-Compliant Commencing With 11/1/2004 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 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 5/4/2024

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