

Customer Specification

PART NO. 9853C

Construction

		Diameter ("in")			
1) Component 1		3 x 1 PAIR			
a) Conductor		20 (7/28) AWG TC		0.038	
b) Insulation		0.0195" Wall, Nom. Foam HDPE		0.077	
(1) Color(s)					
Pair	Color	Pair	Color	Pair	Color
1	GREEN-BLUE	2	YELLOW-ORANGE	3	WHITE-BROWN
c) Pair		2/Cond Cabled Together			
(1) Twists		4.0 Twists/foot (min.)			
Individually Applied					
d) Shield		Alum/Mylar Tape, 25% Overlap (min.)			
(1) Foil Direction		Foil Facing Out			
2) Component 2		1 x 1 PAIR			
a) Conductor		20 (7/28) AWG TC		0.038	
b) Insulation		0.010" Wall, Nom. PVC, Semi-Rigid		0.058	
(1) Color(s)					
Pair	Color	Pair	Color	Pair	Color
1	BLACK-RED				
c) Pair		2/Cond Cabled Together			
(1) Twists		4.0 Twists/foot (min.)			
Individually Applied					
d) Shield		Alum/Mylar Tape, 25% Overlap (min.)			
(1) Foil Direction		Foil Facing Out			
3) Cable Assembly		4 Components Cabled			
a) Twists:		2.0 Twists/foot (min.)			
b) Common Drain Wire		22 (7/30) AWG TC			
c) Core Wrap		Clear Mylar Tape, 25% Overlap (min.)			
4) Shield		Alum/Mylar Tape, 25% Overlap (min.)			
a) Foil Direction		Foil Facing Out			
b) Braid		TC, 95% Coverage (min.)			
5) Jacket		0.035" Wall, Nom., PVC		0.401 (0.425 max.)	
a) Color(s)		SLATE			
b) Print		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 <i>Note: Product may have c(UL) or CSA markings depending upon plant of manufacture.</i>			

Applicable Specifications

1) UL	CM	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/EU(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. Refer to the RoHS Certificate of Compliance for more detail.
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. For up-to-date information, please see Alpha's REACH SVHC Declaration .
3) California Proposition 65	Outer surface materials used in manufacturing 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. max.
Electrical Properties	
	<i>Engineering purposes only</i>
1) Voltage Rating	300 V _{RMS}
2) Component 1	
a) Characteristic Impedance	78 ω +/- 5
b) Inductance	0.2 μ H/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
	<i>Spool dimensions may vary slightly.</i>

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