



Alpha Wire Company
Customer Specification

Alpha Part Number: 9853C

Date Issued: 03/20/98

Product Description: Transceiver drop cable, consisting of 3 pairs 20 AWG (7/28) tinned copper conductors, color coded foam polypropylene insulation, one pair 20 AWG (7/28) tinned copper conductors, color coded semi-rigid polyvinylchloride insulation, all pairs are individually aluminum/polyester shielded, tinned copper common drain wire, overall aluminum/polyester and braid shields, with an overall polyvinylchloride jacket.

Note: All dimensions are in inches unless otherwise specified.

Construction Requirements

Conductor Data (Data Pairs):

Material	Tinned Copper
AWG, Stranding	20, 7/28

Insulation Data (Data Pairs):

Material	Foam Polypropylene
Nominal Wall Thickness	0.018
Nominal Diameter	0.076

Pairing Data (Data Pairs):

Number of Pairs	3
Color Code	Pair 1: Green, Blue Pair 2: Yellow, Orange Pair 3: White, Brown

Individual Foil Shield (Data Pairs):

Material	Aluminum/Polyester, Aluminum Facing Out
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Conductor Data (Power Pair):

Material	Tinned Copper
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AWG, Stranding

20, 7/28

Alpha Customer Specification: P/N 9853C

Page 2 of 3

Insulation (Power Pair):

Material	Semi-Rigid Polyvinylchloride
Nominal Wall Thickness	0.010
Nominal Diameter	0.058

Pairing Data (Power Pair):

Number of Pairs	1
Color Code	Black, Red

Individual Foil Shield (Power Pair):

Material	Aluminum/Polyester, Aluminum Facing Out
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Core Assembly Data:

Common Drain Wire Material	Tinned Copper
AWG, Stranding	22, 7/30

Overall Foil Shield Data:

Material	Aluminum/Polyester, Aluminum Facing Out
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Overall Braid Shield Data:

Type	Braid
Material	Tinned Copper
Nominal Coverage	95%

Jacket Data:

Material	Polyvinylchloride
Color	Gray
Nominal Wall	0.035
Nominal Diameter	0.39

Finished Product Requirements:

Temperature Range	-20°C To 75°C
Voltage Rating	300 Volts
UL Type	CM
CSA Type	CMG FT4
IEEE	802.3
Nominal Impedance (Data Pairs)	78, ±5 Ohms
Maximum Attenuation (Db/50 Meters)	3 @ 5 - 10 Mhz
Minimum Balanced Crosstalk (Pair to Pair)	40 Db
Capacitance, Data Pairs, pF/FT	16.7 (Nominal)
Velocity of Propagation, %	78 Nom., 65 Min.