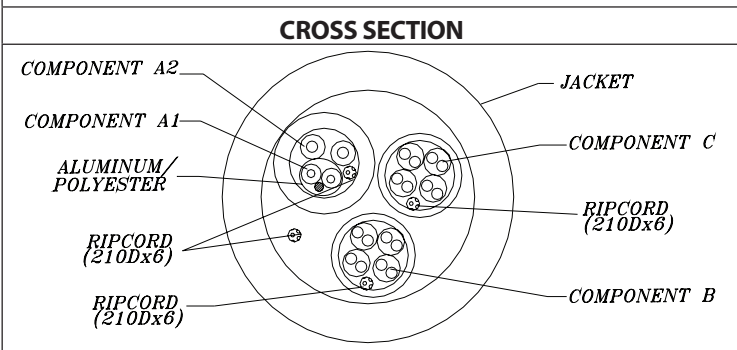


PRODUCT SPECIFICATION: **Control Black**



MARKING

ICE CABLE SYSTEMS CONTROL BLACK 18AWG 2C + 22AWG 1PR + (2) CAT 5E 350MHZ E301442-22 (UL) CL3 75C OR E312434-22 c(UL) CMG FT4 75C ROOM: ENT KIT FAM LR DR OFF POO POWD PAT MBR MBA BR1 BR2 BR3 BR4 GAR GYM 1 2 3 4 5 6 "ROHS" 000/500 FT

DESCRIPTION

Rated Voltage (V)	300
Rated Temperature (°C)	75
Product Standard Certification	c(UL) CL3
Flame test	FT4

Application:
Power-limited circuit cables for use a fixed wiring within buildings (some are also marked for direct burial) principally for class 3 and class 2 circuits.

Reference Standard: UL 13 & the customer's specification

CONSTRUCTION

Component A and B:	
Conductor:	Stranded Bare Copper
Component A1: 1P	2C
AWG	22
Construction (±0.003mm)	7/0.254
Diameter (mm)	0.77
Insulation:	FOAM PE
Nom. Thickness (mm)	0.50
Insulation Dia. (±0.05mm)	1.8
Drain Wire (Stranded Tinned Copper)	7/0.20T
Shield:	Aluminum/Polyester
Coverage (%)	≥125%
Component A2:	2C
AWG	18
Construction (±0.005mm)	7/0.40
Stranded Dia. (mm)	1.22
Insulation:	SR-PVC
Nom. Thickness (mm)	0.18
Insulation Dia. (±0.05mm)	1.6
Component A1, A2 (B1,B2) cabled together	
Ripcord:	210Dx6 nylon thread
Mid-Jacket:	PVC
Nom. Thickness (mm)	0.65
Outer Dia. (±0.10mm)	5.6

CONSTRUCTION

Component B (C): (1/0.511X4P)	8C
Conductor:	Solid Bare Copper
AWG	24
Construction (±0.005mm)	1/0.511
Solid Dia. (mm)	0.511
Insulation:	PE
Nom. Thickness (mm)	0.20
Insulation Dia. (±0.05mm)	0.925
Ripcord:	210Dx6 nylon thread
Mid-Jacket:	PVC
Nom. Thickness (mm)	0.48
Outer Dia. (±0.10mm)	5.0
Ripcord:	210Dx6 nylon thread
Jacket:	PVC
Nom. Thickness (mm)	0.80
Outer Dia. (±0.2mm)	13.5


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BR	Brian Rizzo		



PRODUCT SPECIFICATION: Control Black

PERFORMANCE	
Electrical Characteristics:	(20°C)
Voltage:	300 Volts RMS
Temperature:	-20°C to 75°C
Max. Conductor DC Resistance (Ω/KM)	#18: 21.4 #22: 54.3 #24: 89
Min. Insulation Resistance(Ω/km)	FOAM PE: 100M SR-PVC: 50M
Dielectric Strength	AC-500V/1 Min
Mechanical Characteristics:	
Test Object	Jacket
Test Material	PVC
Before Tensile Strength (kg/mm ²)	≥1.05
Component A Marking (Black)	
ICE CABLE SYSTEMS CONTROL YELLOW 18AWG 2C + 22AWG 1PR E301442-22 (UL) CL3 75C OR E312434-22 c(UL) CMG FT4 75C ROOM: ENT KIT FAM LR DR OFF POO POWD PAT MBR MBA BR1 BR2 BR3 BR4 GAR GYM 1 2 3 4 5 6 ""ROHS"" 0000/1000 FT	
Component B & C: Marking (Black)	
ICE CABLE SYSTEMS CATEGORY 5E 350MHZ VERIFIED TO TIA/EIA-568-B.2 E312434-22 UL OR c(UL) CMR 75C 24 AWG 4 PR UTP APP:DATA PHONE ROOM: ENT KIT NK FAM LR DR POWD OFF POO PAT MBR MBA BR1 BR2 BR3 BR4 BR5 GAR GYM OTHER WALL: N S E W JACK: 1 2 3 4 5 6 USE: KPAD TPAD LAN TEL "ROHS" XXXX/XXXX FT. "XXXX/XXXX" Stands for length. ie.: 0000/1000; 0004/0996; 0008/0992...	

COLOR & PACKAGING	
Component A:	Green with Yellow Stripe (Pantone: 326 C)
	1P: White & Blue 2C: 1. Black 2. Red
Component B:	Cat 5e Jacket: Green (Pantone: 334U)
Insulation:	1P: Blue & White/Blue 2P: Orange & White/Orange 3P: Green & White/Green 4P: Brown & White/Brown
Component C:	Cat 5e Jacket: White (Pantone: White)
Insulation:	1P: Blue & White/Blue 2P: Orange & White/Orange 3P: Green & White/Green 4P: Brown & White/Brown
Jacket:	Teal with a black stripe (Pantone: 326 U)
Packaging:	500ft Spool



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PRODUCT: Control Black

Electrical Properties: Cat 5e specs
 D-C Resistance Unbalance: Max. 5%;
 Pair-to-Ground Capacitance Unbalance: Max. 330 pF/100m;
 Characteristic Impedance (1-100MHz): 100 +/- 15 ohms;
 Propagation Delay Skew (1-100MHz): Max. 45ns/100m;

Frequency (MHz)	Attenuation (dB/100m)	NEXT (dB/100m)	ACR (dB)	PSNEXT (dB)	ELFEXT (dB)	PSELFEXT (dB/100m)	RL (dB)	DELAY (ns/100m)
0.772	1.8	67.0	65.2	64.0	66.0	63.0	19.4	575.0
1	2.0	65.3	63.3	62.3	63.8	60.8	20.0	570.0
4	4.1	56.3	52.2	53.3	51.7	48.7	23.0	552.0
8	5.8	51.8	46.0	48.8	45.7	42.7	24.5	546.7
10	6.5	50.3	43.8	47.3	43.8	40.8	25.0	545.0
16	8.2	47.3	39.1	44.4	39.7	36.7	25.0	543.0
20	9.3	45.8	36.5	42.8	37.7	34.7	25.0	542.0
25	10.4	44.3	33.9	41.3	35.8	32.8	24.3	541.2
31.25	11.7	42.9	31.2	39.9	33.9	30.9	23.6	540.4
62.50	17.0	36.4	19.4	35.4	27.8	24.6	21.5	538.6
100	22.0	35.3	13.3	32.3	23.8	20.8	20.1	538.0
200	32.4	30.8	-	27.8	17.8	14.8	18.0	536.6
300	41.0	28.2	-	25.2	14.3	11.3	16.8	536.1
350	44.9	27.2	-	24.2	12.9	9.9	16.3	535.9




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TEST REPORT

QR07=Q01=F061=01

<p>ITEM</p>	<p>Capacitance ` Impedance</p>			
<p>QUANTITY</p>	<p>1 PCS</p>			
<p>CONDITIONS</p>	<p>Room Environment: 20°C, 60% RH Test Equipment: TDR ` LCR L=1 Meter</p>			
<p>TIME & DATE</p>	<p>2007.04.17</p>			
<p>OUTLINE</p>	<p>P/N: B0205066-FT4 Customer P/N: Control Black Specification: [(7/0.254x1P+7/0.20TG)x1+7/0.40x2C]x1+(1/0.511x4P)x2</p>			
<p>RESULTS</p>	<p>Parameter Pair</p>	<p>Capacitance (pF/Ft)</p>	<p>Impedance (Ω)</p>	
			<p>2ns</p>	<p>5ns</p>
	<p>Drain Wire & White</p>	<p>25.36</p>	<p>47.4</p>	<p>45.9</p>
	<p>Drain Wire & Blue</p>	<p>26.55</p>	<p>45.1</p>	<p>47.8</p>
	<p>White & Blue</p>	<p>15.63</p>	<p>81.2</p>	<p>84.8</p>
<p>Red & Black</p>	<p>26.76</p>	<p>67.8</p>	<p>63.5</p>	
	<p align="center">  1521 Pontius Ave., Los Angeles, CA 90025 Email: info@icecable.com Web: http://www.icecable.com Tel: 310.444.1950 Fax: 310.444.1966 </p>			
	<p>Sample No. Revision</p>	<p>- A</p>	<p>Spec No.</p>	<p>51187-A</p>
	<p>Date</p>	<p>04/06/2007</p>	<p>Page</p>	<p>4 of 4</p>
	<p>Designed by</p>	<p>Approved by</p>		
	<p>BR</p>	<p>Brian Rizzo</p>		