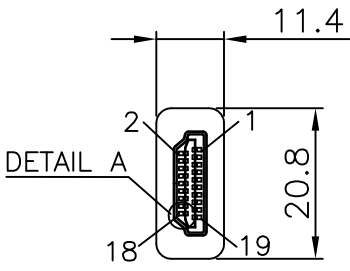
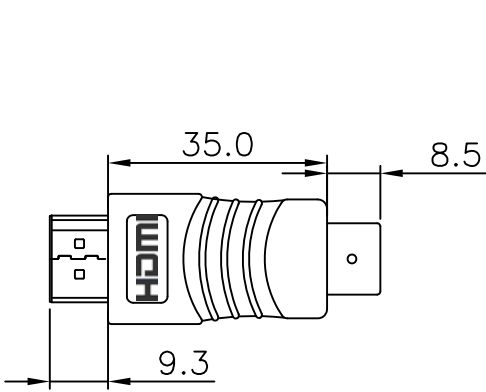
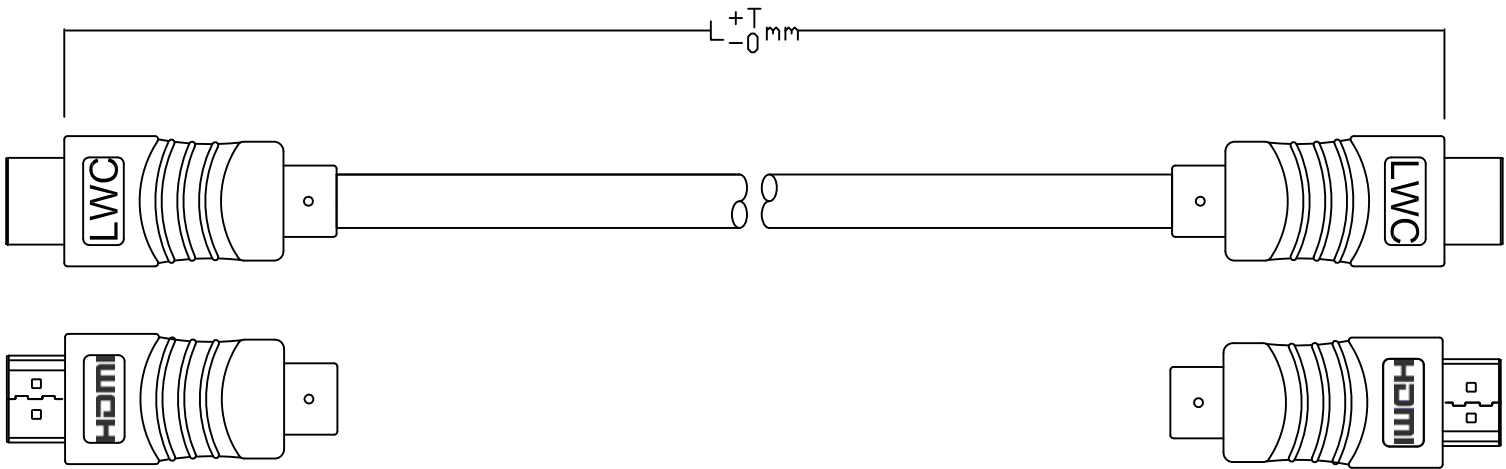
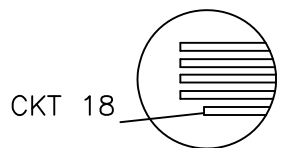


REV	DESCRIPTION	DATE
0	ISSUE	04/18/2008



HDMI(M)



DETAIL A

Product manufactured using all RoHS compliant components













E-HDSM-M-10	10000	75
E-HDSM-M-8	8000	75
E-HDSM-M-6	6000	50
P/N.	L(mm)	T(mm)

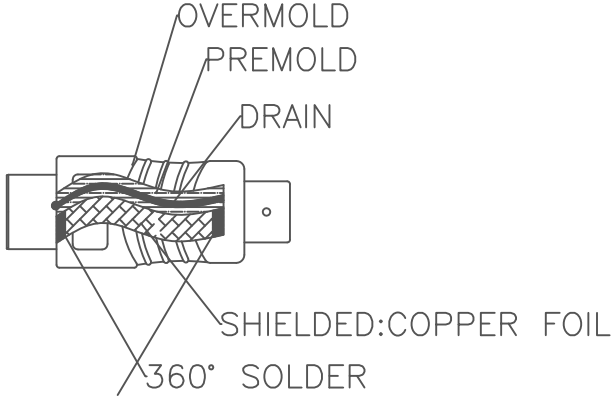
LIBERTY WIRE & CABLE		WWW.LIBERTYCABLE.COM	
11675 RIDGELINE DRIVE		(800) 530-8998	
COLORADO SPRINGS, CO 80921			
UNIT: mm	TITLE:	Assembly Specification	
SCALE: None	CBL, ASY, HDMI		
UNLESS OTHERWISE SPECIFIED TOLERANCES: x ±X xx±XX xxx ±XXX ANGLE ±_	PART NUMBER:		DR: RP
	E-HDSM-M-XX		CH: RP
SHEET: 1/3	DWG#: LWC-ASY-00063	AP: RP	

REV	DESCRIPTION	DATE
0	ISSUE	04/18/2008

PIN OUT

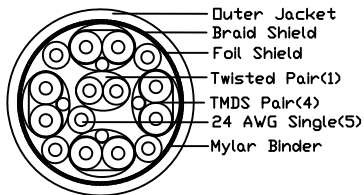
HDMI ————— HDMI

1		1	TMDS DATA 2+
3		3	TMDS DATA 2-
2		2	TMDS DATA 2 SHIELD
4		4	TMDS DATA 1+
6		6	TMDS DATA 1-
5		5	TMDS DATA 1 SHIELD
7		7	TMDS DATA 0+
9		9	TMDS DATA 0-
8		8	TMDS DATA 0 SHIELD
10		10	TMDS CLOCK+
12		12	TMDS CLOCK-
11		11	TMDS CLOCK SHIELD
13	PINK	13	CEC
14	PURPLE	14	RESERVED
15	YELLOW	15	SCL
16	ORANGE	16	SDA
17	GRAY	17	DDC/CEC GROUND
18	RED	18	+5V POWER
19	WHITE	19	HOT PLUG DETECT
SHELL	DRAIN+BRAID	SHELL	GROUND



HDMI(M) SHIELDED FIG.

LIBERTY WIRE & CABLE		WWW.LIBERTYCABLE.COM	
11675 RIDGELINE DRIVE		(800) 530-8998	
COLORADO SPRINGS, CO 80921			
UNIT: mm	TITLE: Assembly Specification		
SCALE: None	CBL, ASY, HDMI		
UNLESS OTHERWISE SPECIFIED TOLERANCES: x ±X xx±XX xxx ±XXX ANGLE ±_	PART NUMBER:		DR: RP
	E-HDSM-M-XX		CH: RP
SHEET: 2/3	DWG#: LWC-ASY-00063	AP: RP	



REV	DESCRIPTION	DATE
0	ISSUE	04/18/2008

Drawing not to scale

Print Legend: LWC HDMI HIGH SPEED E190607-* (UL) TYPE CL2 75°C 24AWG/4P+24AWG/7C --- CSA 234291 CMG FT4
 Legend applied in white ink every meter without foot or meter marking.

Construction	TMDS pairs	Twisted Pair	Single Conductors
Conductor:	2/C Tinned Copper	Conductor:	5/C Tinned Copper
AWG:	24	AWG:	22
Construction:	7/.20mm (7/32 AWG)	Construction:	7/.254mm (7/32 AWG)
Diameter:	0.61mm (.024-inch)	Diameter:	0.76mm (.030-inch)
Insulation:	Skin Foam Polyethylene (FPE)	Insulation:	High Density Polyethylene (HDPE)
Color:	Pair 1: White, Brown. Pair 2: White, Red. Pair 3: White, Green. Pair 4: White, Blue	Color:	Pair 1: Yellow, Orange.
Thickness:	0.38mm (.015-inch)	Thickness:	0.25mm (.010-inch)
Diameter:	1.55mm (.061-inch)	Diameter:	1.30mm (.0512-inch)
TMDS Shield:	100% Aluminum/Poly shield with foil facing out and 25% overlap	Pair Binder:	100% Mylar tape
Drain:	24 AWG 7/32 Tinned Copper drain wire in contact with the foil side of the shield		

Overall Construction:
 Build Note: 4 TMDS Pairs, one Twisted Pair, 3 24 AWG and 2 22 AWG singles cabled on a common axis.
 Binder: 100% Mylar tape
 Shield 1: 100% Mylar shield with foil facing out and 25% overlap
 Shield 2: 85% 24x12/.12mm (24x12/36 AWG) Tinned Copper Braid shield
 Jacket: Polyvinyl Chloride (PVC)
 Thickness: 0.81mm (.032-inch)
 Diameter: 9.00mm nominal (.354-inch)

Electrical Specifications	
TMDS Pairs	
Conductor DCR:	93.25 Ω/KM (28.43 Ω/1000FT)
Impedance:	100 Ω
Capacitance:	96 pF/M (29.27 pF/FT)
Intrapair Skew:	≤111 ps/Cable
24 AWG Conductors	
Conductor DCR:	93.25 Ω/KM (28.43 Ω/1000FT)
Voltage:	150V
Temperature:	-20°C to 75°C
Inductance:	Not Specified
Interpair Skew:	≤1.78 ns/Cable

Jacket Colors: Matte Black
 Package(s): Not applicable, sub-component of completed assemblies

Regulatory Certification(s):
 ATC High Speed Certified
 NEC rated CL2, AWM 20276
 CEC rated CMG FT4
 EU RoHS 2002/95/EC Compliant

Frequency	Attenuation
MHz	dB/6M
0.3-825	<5
825-2475	<5~12
2475-4125	<12~20
4125-5.10	<20~25

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11675 RIDGELINE DRIVE		(800) 530-8998	
COLORADO SPRINGS, CO 80921			
	UNIT:mm	TITLE: Assembly Specification	
SCALE	None	CBL, ASY, HDMI	
UNLESS OTHERWISE SPECIFIED TOLERANCES: x ±X xx±XX xxx ±XXX ANGLE ±_		PART NUMBER:	DR: RP
		E-HDSM-M-XX	CH: RP
SHEET: 3/3	DWG#: LWC-ASY-00063	AP: RP	