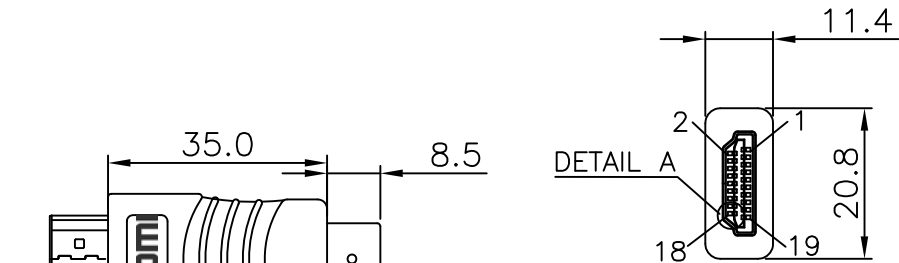
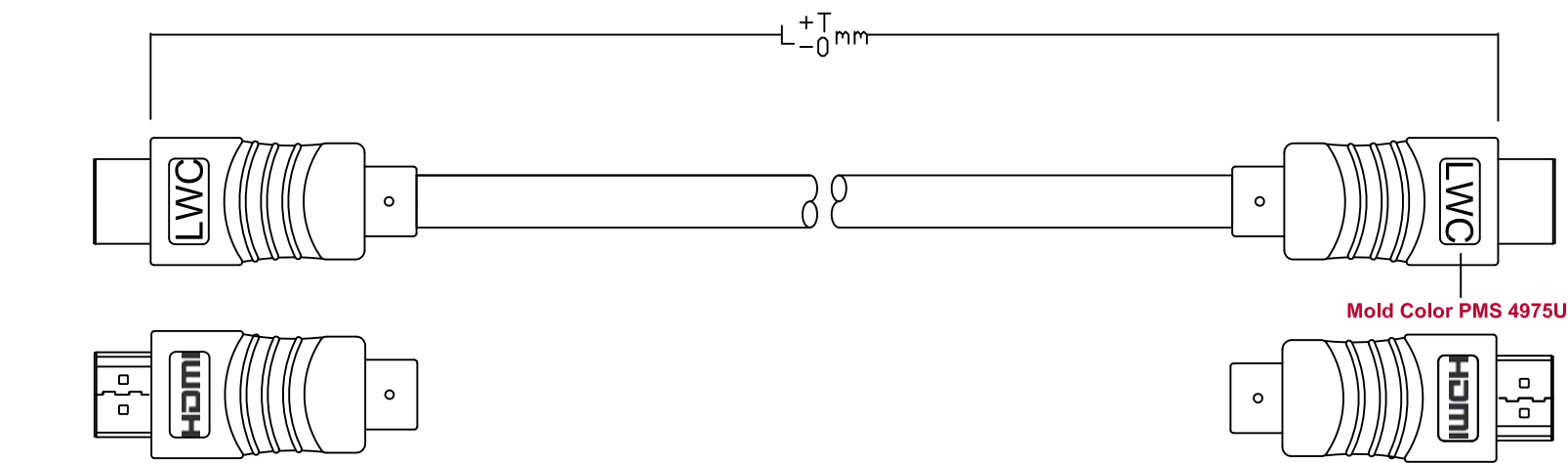
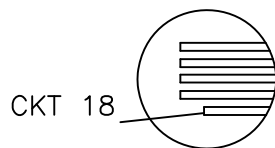


REV	DESCRIPTION	DATE
0	ISSUE	11/30/09



HDMI(M)



DETAIL A

Product manufactured using all
RoHS compliant components

E-HDSEM-M-10	10000	75
E-HDSEM-M-08	8000	75
E-HDSEM-M-06	6000	50
P/N.	L(mm)	T(mm)

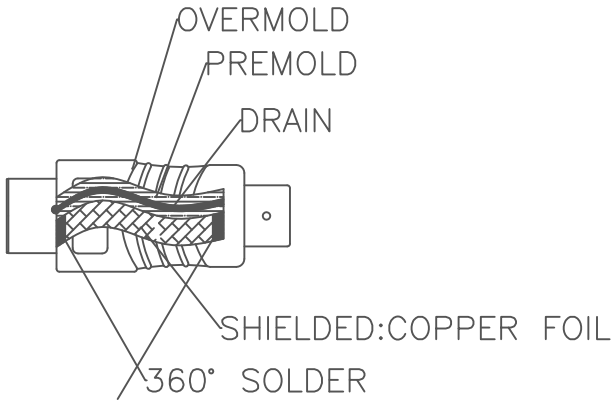
LIBERTY WIRE & CABLE		WWW.LIBERTYCABLE.COM	
11675 RIDGELINE DRIVE		(800) 530-8998	
COLORADO SPRINGS, CO 80921			
SCALE	UNIT:mm	TITLE:	
	None	Assembly Specification CBL, ASY, HDMI	
UNLESS OTHERWISE SPECIFIED TOLERANCES: x ±.015 xx ±.010 xxx ±.005 ANGLE ± 1°		PART NUMBER:	DR. RP
		E-HDSEM-M-XX	CH. RP
SHEET 1/3		DWG. #: LWC-ASY-00094	AP. RP

REV	DESCRIPTION	DATE
0	ISSUE	11/30/09

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		13	CEC
14		14	UTILITY/HEAC +
19		19	HPD/HEAC -
17		17	DDC/CEC/HEAC SHIELD
15		15	SCL
16		16	SDA
18		18	+5V POWER
SHELL	DRAIN+BRAID	SHELL	GROUND



HDMI(M) SHIELDED FIG.

LIBERTY WIRE & CABLE

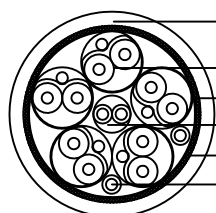
WWW.LIBERTYCABLE.COM

11675 RIDGELINE DRIVE

(800) 530-8998

COLORADO SPRINGS, CO 80921

	UNIT:mm	TITLE: Assembly Specification CBL, ASY, HDMI	
SCALE	None		
UNLESS OTHERWISE SPECIFIED TOLERANCES: x ±.015 xx ±.010 xxx ±.005 ANGLE ± 1°		PART NUMBER:	DR. RP
		E-HDSEM-M-XX	CH. RP
SHEET 2/3	DWG. #:	LWC-ASY-00094	AP. RP



Jacket

Shielded Pairs (5)

Foil Shield

Twisted Pair (1)

Braid Shield

Discrete Conductor (2)

Drawing not to scale

REV	DESCRIPTION	DATE
0	ISSUE	11/30/09

Print Legend: LWC HDMI HIGH SPEED WITH ETHERNET E190607-* (UL) TYPE CL2 75°C 24AWG/5P+24AWG/4C --- CSA LL87003 CM FT4

Construction	Shielded pairs	Twisted Pair	Single Conductors
Conductor:	2/C Tinned Copper	Conductor:	2/C Tinned Copper
AWG:	24	AWG:	24
Construction:	7/.20mm (7/32 AWG)	Construction:	7/.20mm (7/32 AWG)
Diameter:	0.61mm (.024-inch)	Diameter:	0.61mm (.024-inch)
Insulation:	Skin Foam Polyethylene (FPE)	Insulation:	High Density Polyethylene (HDPE)
Color:	Pair 1: White, Black. Pair 2: White, Brown. Pair 3: White, Red. Pair 4: White, Green Pair 5: White, Blue	Color:	Pair 1: Yellow, Orange.
Thickness:	0.50mm (.020-inch)	Thickness:	0.20mm (.008-inch)
Diameter:	1.60mm (.063-inch)	Diameter:	1.00mm (.039-inch)
Pair Shield:	100% Aluminum/Mylar shield with foil facing out and 25% overlap		
Pair Drain:	24 AWG 7/32 Tinned Copper drain wire in contact with the foil side of the shield		
Pair Binder:	100% Mylar with a 25% overlap		
Overall Construction:			
Build Note:	5 Shielded Pairs, one Twisted Pair, and 2 single conductors cabled on a common axis for roundness		
Shield 1:	100% Aluminum/Mylar Tape with a 25% overlap and foil facing out		
Shield 2:	90% 24x12/.127mm (24x12/36 AWG) Tinned Copper Braid shield		
Jacket:	Flame Retardant Polyvinyl Chloride (FR-PVC)		
Thickness:	0.61mm (.024-inch)		
Diameter:	10.00mm nominal (.394-inch)		

Electrical Specifications

TMDS Pairs			
Conductor DCR:	93.25 Ω /KM (28.43 Ω /1000FT)	Voltage:	150V
Impedance:	100 $\pm$ 10 Ω	Temperature:	-20°C to 75°C
Capacitance:	42.6 pF/M (13.0 pF/FT)	Inductance:	Not Specified
Intrapair Skew:	$\leq$ 112 ps/Cable	Delay:	$\leq$ 4.69 ns/m
24 AWG Conductors			
Conductor DCR:	93.25 Ω /KM (28.43 Ω /1000FT)		

Jacket Colors: Matte Black

Package(s): Not applicable, sub-component of completed assemblies

Regulatory Certification(s):

ATC HDMI High Speed Certified with Ethernet
NEC rated CL2, AWM 20276
CEC rated CM 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

SCALE	UNIT:mm	TITLE: Assembly Specification CBL, ASY, HDMI	
	None	PART NUMBER:	DR. RP
UNLESS OTHERWISE SPECIFIED TOLERANCES: x $\pm$.015 xx $\pm$.010 xxx $\pm$.005 ANGLE $\pm$ 1°		E-HDSEM-M-XX	CH. RP
SHEET 3/3	DWG. #:	LWC-ASY-00094	AP. RP