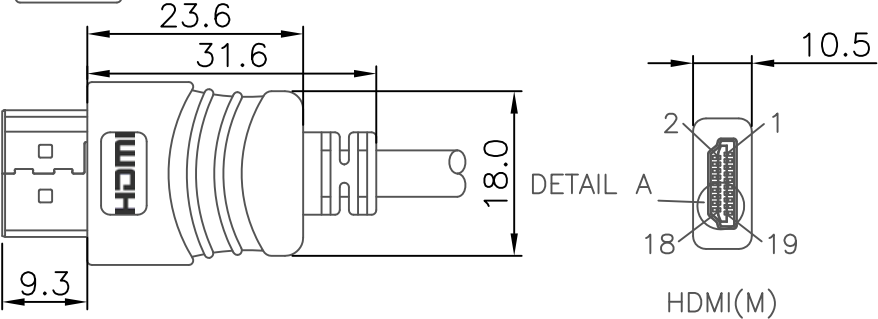
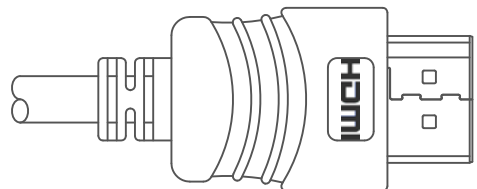
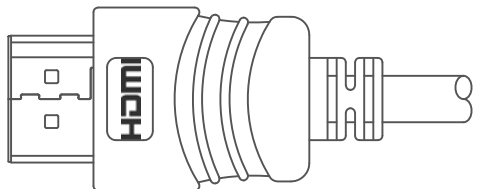
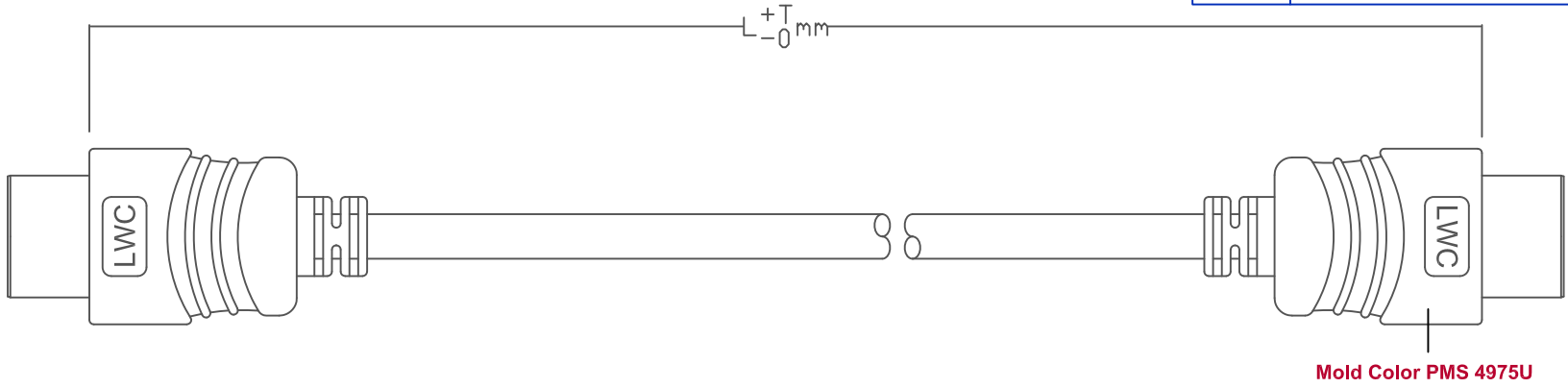
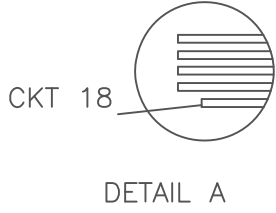


REV	DESCRIPTION	DATE
0	ISSUE	12/15/09
1	REV AWG, RATE	04/19/10



Product manufactured using all
RoHS compliant components

E-HDSEM-M-02	2000	15
E-HDSEM-M-01.5	1500	15
E-HDSEM-M-01	1000	15
E-HDSEM-M-00.5	500	15
P/N.	L(mm)	T(mm)

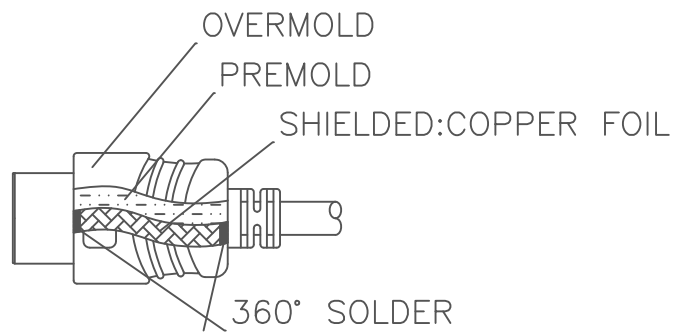
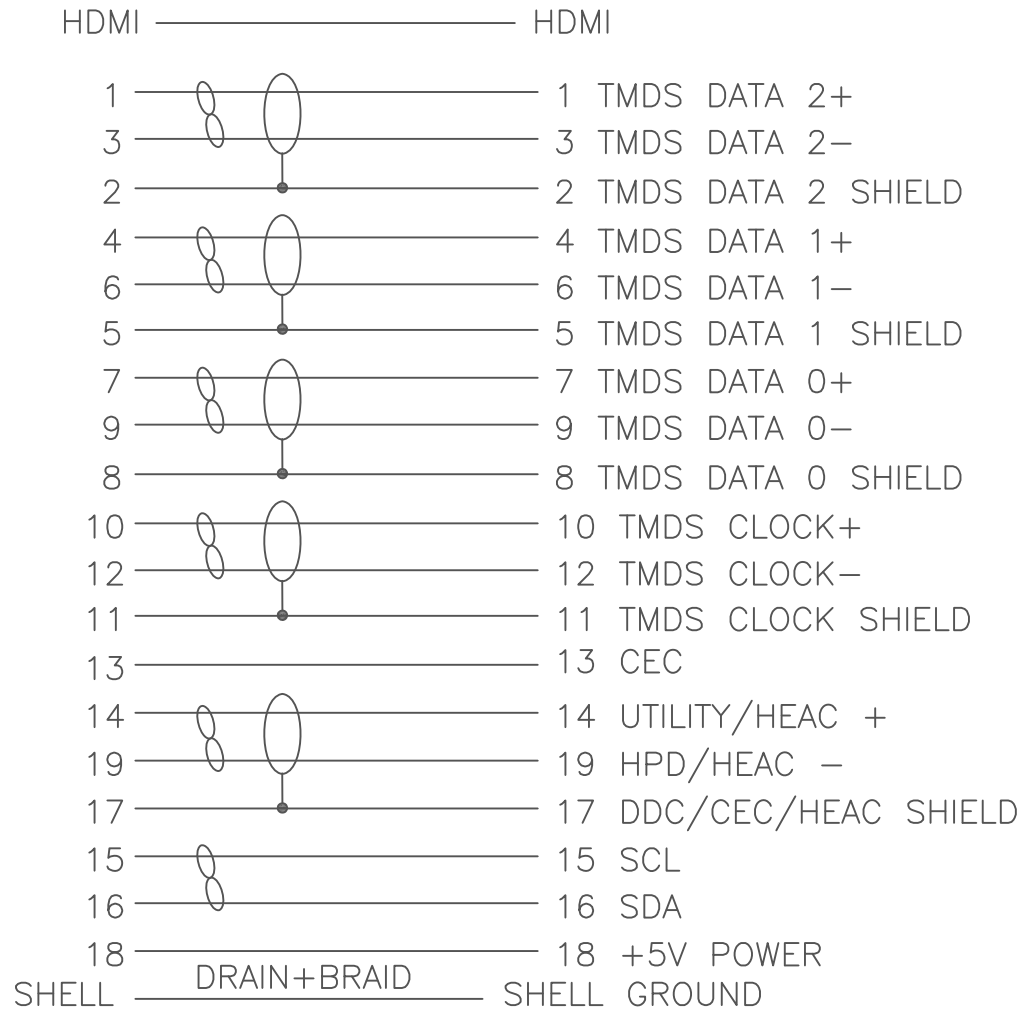


LIBERTY WIRE & CABLE WWW.LIBERTYCABLE.COM
 11675 RIDGELINE DRIVE (800) 530-8998
 COLORADO SPRINGS, CO 80921

UNIT:mm		TITLE:	
SCALE	None	Assembly Specification CBL, ASY, HDMI	
UNLESS OTHERWISE SPECIFIED TOLERANCES: x ±.015 xx ±.010 xxx ±.005 ANGLE ± 1°		PART NUMBER:	DR. RP
		E-HDSEM-X	CH. RP
SHEET	DWG. #:	AP. RP	
1/3	LWC-ASY-00098		

REV	DESCRIPTION	DATE
0	ISSUE	12/15/09
1	REV AWG, RATE	04/19/10

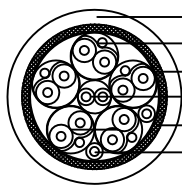
PIN OUT



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	PART NUMBER: E-HDSEM-X	DR. RP
UNLESS OTHERWISE SPECIFIED TOLERANCES: x ±.015 xx ±.010 xxx ±.005 ANGLE ± 1°		DWG. #: LWC-ASY-00098	CH. RP
SHEET 2/3			AP. RP



Jacket
 Shielded Pairs (5)
 Foil Shield
 Twisted Pair (1)
 Braid Shield
 Discrete Conductor (2)

REV	DESCRIPTION	DATE
0	ISSUE	12/15/09
1	REV AWG, RATE	04/19/10

Drawing not to scale

Print Legend: LWC HDMI HIGH SPEED WITH ETHERNET E190607-* (UL) TYPE CL2 75°C 30AWG/5P+30AWG/4C---CSA 234291 CMG FT4

Legend applied in white ink every meter without foot or meter marking.

Construction	Shielded pairs	Twisted Pair	Single Conductors
Conductor:	2/C Tinned Copper	Conductor:	2/C Tinned Copper
AWG:	30	AWG:	30
Construction:	7/.10mm (7/38 AWG)	Construction:	7/.10mm (7/38 AWG)
Diameter:	0.30mm (.012-inch)	Diameter:	0.30mm (.012-inch)
Insulation:	Skin Foam Polyethylene (FPE)	Insulation:	High Density Polyethylene (HDPE)
Color:	Pair 1: White, Black. Pair 2: White, Brown. Pair 3: White, Orange. Pair 4: White, Green Pair 5: White, Blue	Color:	Pair 1: Yellow, Orange.
Thickness:	0.20mm (.008-inch)	Thickness:	0.18mm (.007-inch)
Diameter:	0.78mm (.031-inch)	Diameter:	0.70mm (.027-inch)
Pair Shield:	100% Aluminum/Mylar shield with foil facing in and 25% overlap		
Pair Drain:	30 AWG 7/38 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% 16x10/.10mm (16x10/38 AWG) Tinned Copper Braid shield		
Jacket:	Flame Retardant Polyvinyl Chloride (FR-PVC)		
Thickness:	0.51mm (.020-inch)		
Diameter:	6.00mm nominal (.236-inch)		

Electrical Specifications

TMDS Pairs		Voltage:	150V
Conductor DCR:	376 Ω/KM (114.63 Ω/1000FT)	Temperature:	-20°C to 75°C
Impedance:	100 ± 10 Ω	Inductance:	Not Specified
Capacitance:	29.52 pF/M (9.0 pF/FT)	Time Delay:	≤5.05 ns/Cable
Intrapair Skew:	≤111 ps/Cable		
Interpair Skew:	≤1.78 ns/Cable		

30 AWG conductors:
 Conductor DCR: 376 Ω/KM (114.63 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
 CEC rated CMG FT4
 EU RoHS 2002/95/EC Compliant

Frequency	Attenuation
MHz	dB/3M
0.3-825	<5
825-2475	<5~12
2475-4125	<12~20
4125-5.10	<20~25

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	PART NUMBER: E-HDSEM-X	DR. RP
UNLESS OTHERWISE SPECIFIED TOLERANCES: x ±.015 xx ±.010 xxx ±.005 ANGLE ± 1°			CH. RP
SHEET 3/3	DWG. #: LWC-ASY-00098		AP. RP