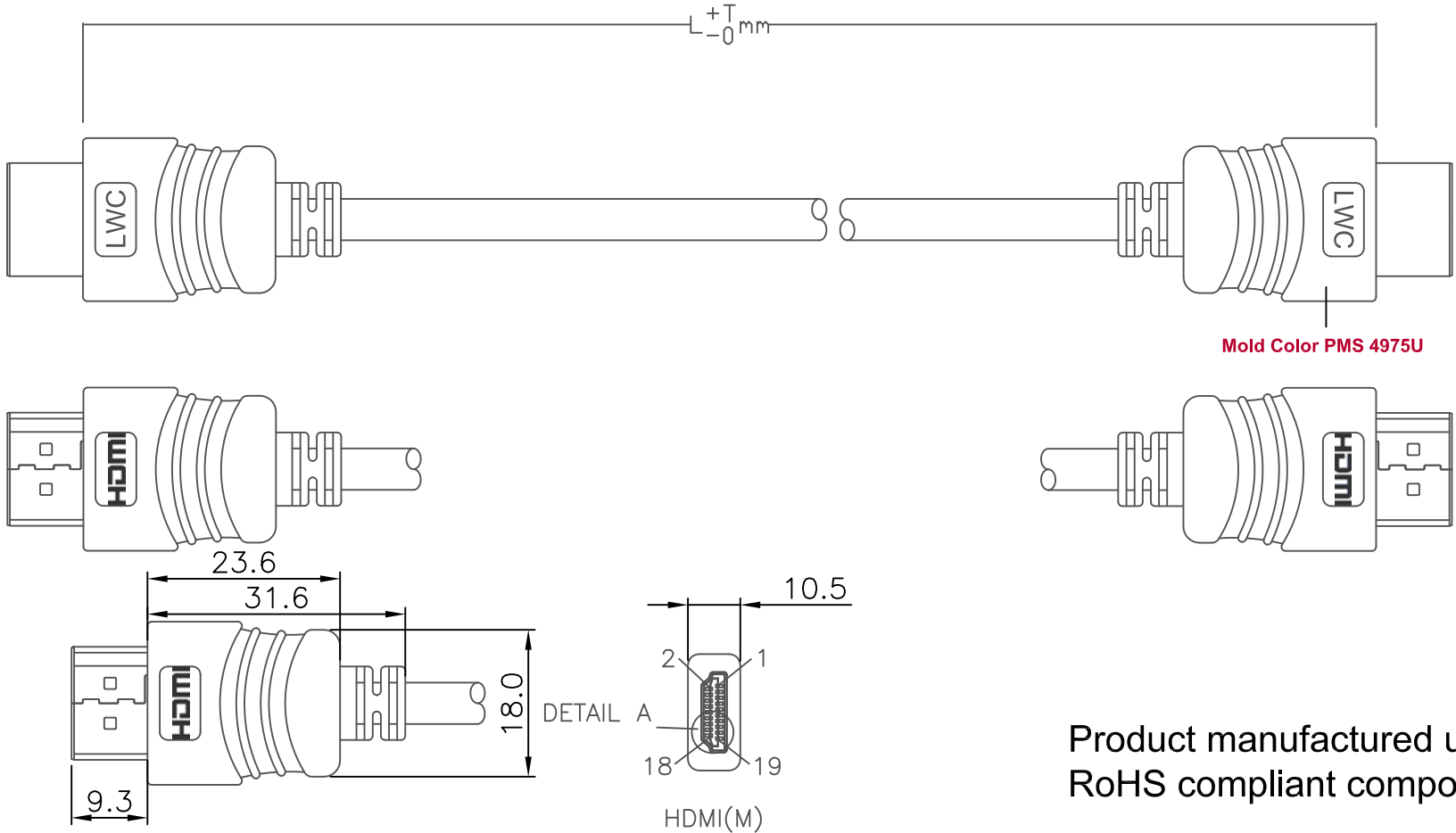


REV	DESCRIPTION	DATE
0	ISSUE	11/30/09



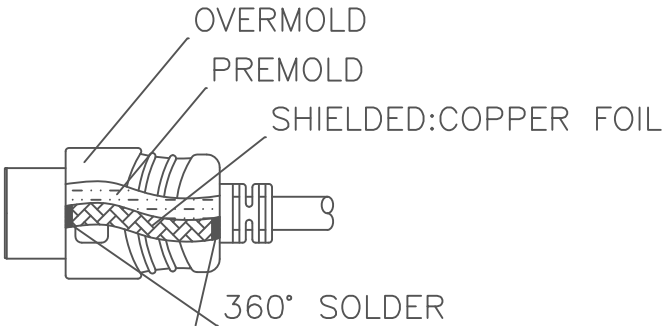
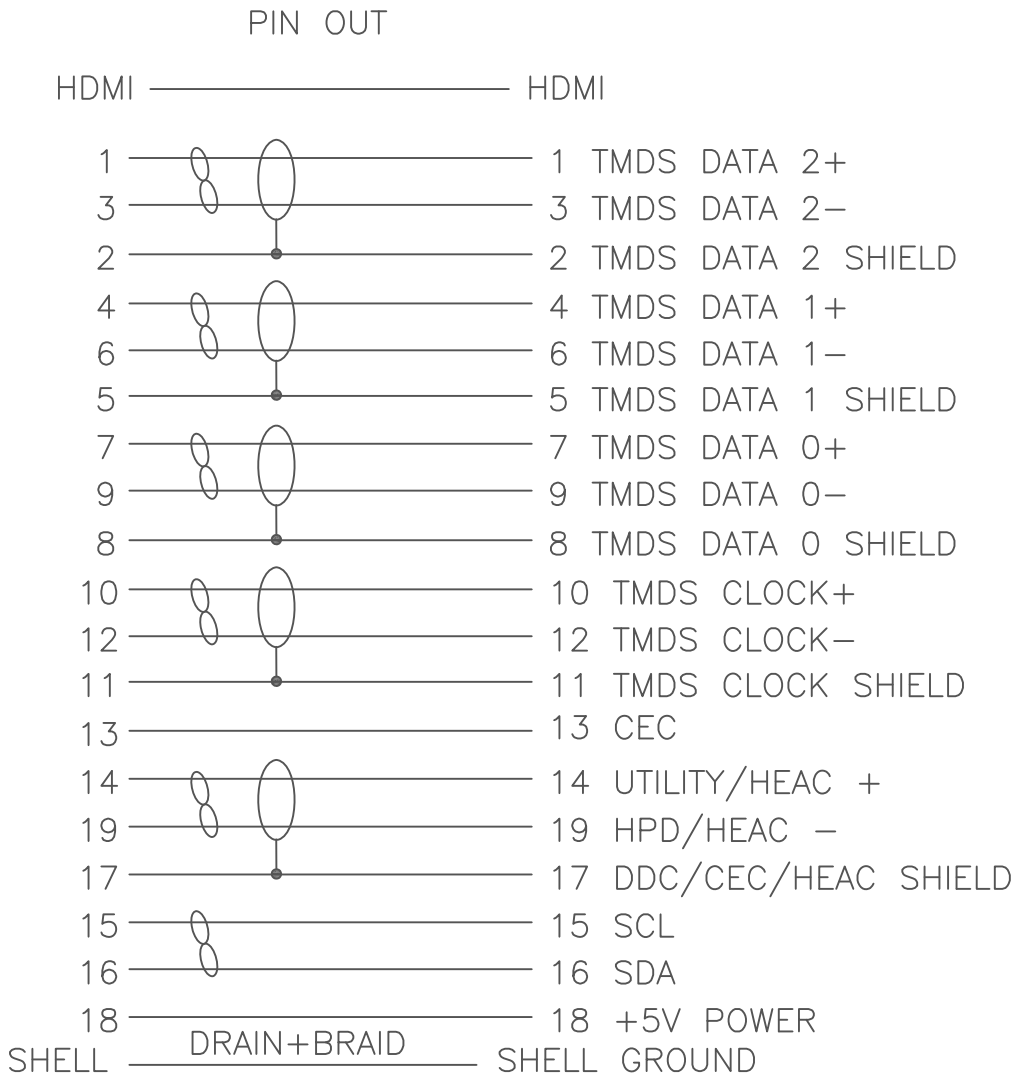
Mold Color PMS 4975U

Product manufactured using all
RoHS compliant components

E-HDSEM-M-05	5000	50
E-HDSEM-M-04	4000	40
E-HDSEM-M-03	3000	30
P/N.	L(mm)	T(mm)

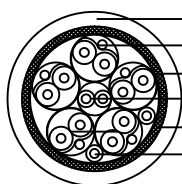
LIBERTY WIRE & CABLE		WWW.LIBERTYCABLE.COM	
11675 RIDGELINE DRIVE		(800) 530-8998	
COLORADO SPRINGS, CO 80921			
SCALE	UNIT:mm	TITLE: Assembly Specification CBL, ASY, HDMI	
	None		
UNLESS OTHERWISE SPECIFIED TOLERANCES: x ±.015 xx ±.010 xxx ±.005 ANGLE ± 1°		PART NUMBER:	DR. RP
		E-HDSEM-M-XX	CH. RP
SHEET 1/3		DWG. #: LWC-ASY-00093	AP. RP

REV	DESCRIPTION	DATE
0	ISSUE	11/30/09



HDMI(M) SHIELDED FIG.

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-M-XX	CH. RP
SHEET 2/3		DWG. #:	AP. RP
		LWC-ASY-00093	



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

REV	DESCRIPTION	DATE
0	ISSUE	11/30/09

Drawing not to scale

Print Legend: LWC HDMI HIGH SPEED WITH ETHERNET E190607-E (UL) TYPE CL2 75°C 28AWG/5P+28AWG/4C --- CSA LL87003 CM FT4

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

Construction		Twisted Pair		Single Conductors	
Conductor:	2/C Tinned Copper	Conductor:	2/C Tinned Copper	Conductor:	2/C Tinned Copper
AWG:	28	AWG:	28	AWG:	28
Construction:	7/.127mm (7/36 AWG)	Construction:	7/.127mm (7/36 AWG)	Construction:	7/.127mm (7/36 AWG)
Diameter:	0.38mm (.015-inch)	Diameter:	0.38mm (.015-inch)	Diameter:	0.38mm (.015-inch)
Insulation:	Skin Foam Polyethylene (FPE)	Insulation:	High Density Polyethylene (HDPE)	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.	Color:	White, Red
Thickness:	0.31mm (.012-inch)	Thickness:	0.16mm (.006-inch)	Thickness:	0.16mm (.006-inch)
Diameter:	0.98mm (.039-inch)	Diameter:	0.70mm (.0276-inch)	Diameter:	0.70mm (.0276-inch)
Pair Shield:	100% Aluminum/Mylar shield with foil facing out and 25% overlap				
Pair Drain:	28 AWG 7/36 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% 16x9/.12mm (16x9/36 AWG) Tinned Copper Braid shield				
Jacket:	Flame Retardant Polyvinyl Chloride (FR-PVC)				
Thickness:	0.61mm (.024-inch)				
Diameter:	7.30mm nominal (.287-inch)				

Electrical Specifications

TMD5 Pairs

Conductor DCR:	93 Ω /KM (28.35 Ω /1000FT)	Voltage:	150V
Impedance:	100 $\pm$ 10 Ω	Temperature:	-20°C to 75°C
Capacitance:	42.6 pF/M (13 pF/FT)	Inductance:	Not Specified
Intrapair Skew:	$\leq$ 112 ps/Cable	Time Delay:	$\leq$ 4.69 ns/Cable
Interpair Skew:	$\leq$ 1.78 ns/Cable		

28 AWG conductors:

Conductor DCR: 93 Ω /KM (28.35 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 CM FT4
EU RoHS 2002/95/EC Compliant

Frequency MHz	Attenuation 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

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-00093	AP. RP