



- Ultra-SCSI
- Ultra-320
- SFF-8441
- EA1700A0AF

VHDCI Very High Density Cable Interconnect provides interconnections where space limitations and high performance are key requirements. Designed to be compact, these fully shielded connectors support ESD/EMI protection, are capable of transferring data up to 80 Gbps and meet EIA700A0AF specifications. Receptacles are available in both right angle and straddle-mount configurations with or without shield EMI tabs.

APPLICATIONS

- RAID
- Disk Drives/Systems
- Servers
- SANs (Storage Area Networks)
- Routers

ORDERING INFORMATION

Contact Amphenol for additional options

VHDCI Receptacle

H11 - XXX - XXX - X* - XX*

VHDCI RECEPTACLE

H11 - Standard receptacle
HE11 - RoHS receptacle

STYLE

RAA - Right Angle, Single Port
RDA - Straddle Mount, Single Port

OPTIONS

100 - No Screwlocks, Standard Shell
101 - Screwlocks Bulk Packed, Standard Shell
110 - No Screwlocks (Standard), Shell without EMI Tabs
111 - Screwlocks Bulk Packed, Shell without EMI Tabs

STRADDLE MOUNT PACKAGING

C - Plug Cover and Tube Packaging*
T - Tape & Reel Packaging*
CT - Plug Cover and Tape & Reel Packaging*

CONTACT OPTIONS

Blank - Standard**
1 - 0.125* contact tails**
3 - 0.062* PCB Thickness*
4 - 0.093* PCB Thickness*

NOTES

- * RDA Style Only
- ** RAA Style Only

MATERIAL SPECIFICATIONS

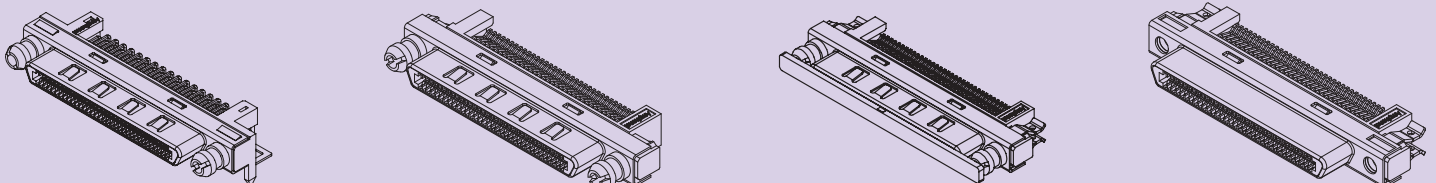
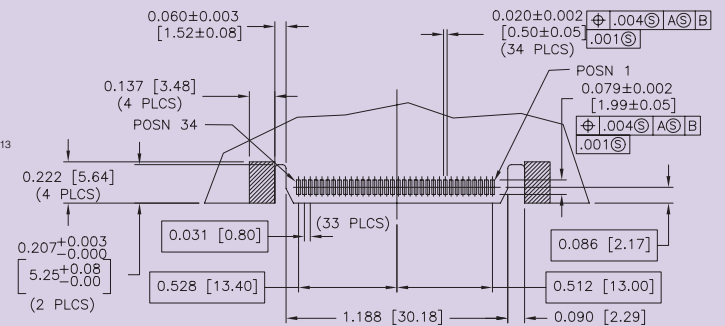
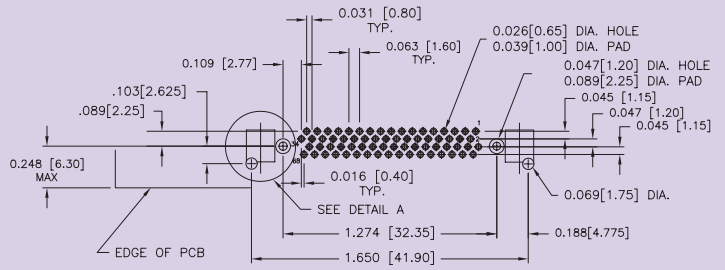
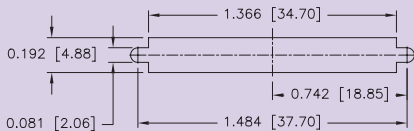
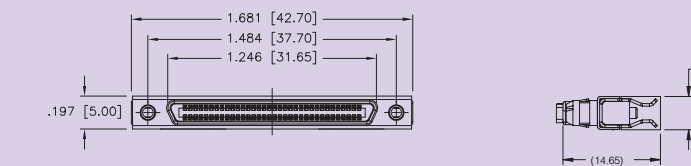
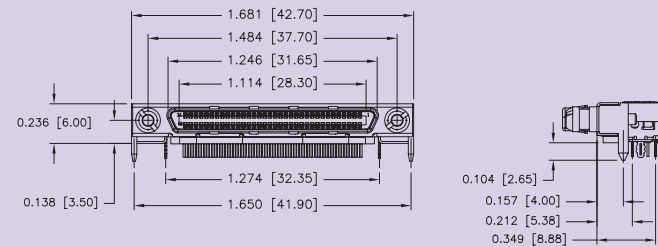
Plastic Insulator	Thermoplastic Flammability rating - UL94V-0
Contacts	Phosphor bronze 30µ" [0.76µm] gold plating over nickel on mating area and tin-lead or tin plating over nickel on PCB termination
Shell	Steel; Nickel plated

Ground Clips	Steel; Tin plated
Nuts	Brass; Bright zinc plated
Screw-Locks	Steel; Nickel plated

ELECTRICAL AND ENVIRONMENTAL SPECIFICATIONS

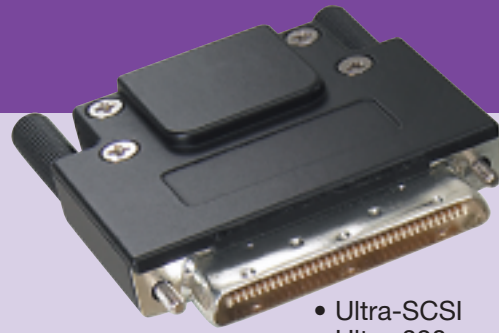
Current Rating	1.5 Amp maximum/contact (single contact) 0.5 Amp maximum/contact (34 contacts energized) 0.3 Amp maximum/contact (68 contacts energized)	Insulation Resistance	500 MΩ minimum
Contact Resistance	60mΩ maximum	Rated Voltage	30 V rms
		Operating Temperature	-55°C to +85°C
		Durability	2000 mating cycles

TECHNICAL SPECIFICATIONS / ISOMETRIC VIEWS



TOLERANCE: ± 0.005 [± 0.13] DIMENSIONS TO BE USED AS REFERENCE ONLY PLEASE REFER TO SALES DRAWINGS FOR DETAILED DIMENSIONS SPECIFICATIONS SUBJECT TO CHANGE

VHDCI Very High Density Cable Interconnect provides interconnections where space limitations and high performance are key requirements. Designed to be compact, these fully shielded connectors support ESD/EMI protection, are capable of transferring data up to 80 Gbps and meet EIA700A0AF specifications. Plugs are available with a variety of back shells, or without a back shell for over-molding purposes.



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VHDCI Plug

H12 - XXX - XXX

VHDCI PLUG KIT (IDC contacts)

STYLE

PAA - Plug with Die Cast Shell

PBA - Overmolding Purpose (No Back Shell)

SHELL OPTIONS

100 - No Back Shell (For Overmolding)*

102 - Die Cast Shell - up to Ø 0.440, Silver**

103 - Die Cast Shell - Ø 0.365 - Ø 0.402, Silver**

104 - Die Cast Shell - up to Ø 0.440, Black**

105 - Die Cast Shell - Ø 0.365 - Ø 0.402, Black**

NOTES

* No Back Shell Option for PBA Style

** Die Cast Shells for PAA Style Only

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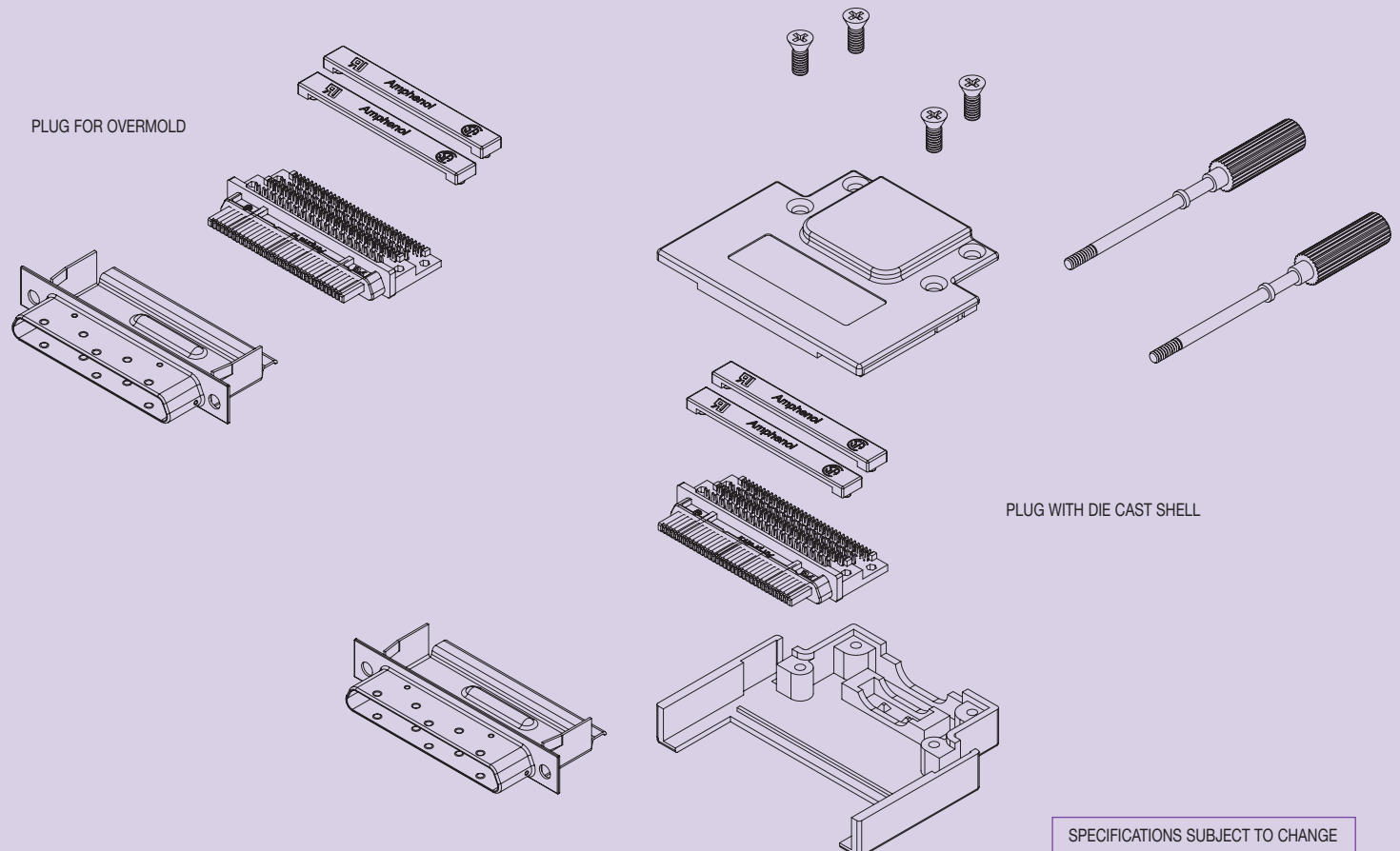
MATERIAL SPECIFICATIONS

Plug Insulator	LCP Flammability rating – UL94V-0
Contacts	Phosphor bronze; 3μ" [0.076μm] gold flash over palladium-nickel on mating area and tin-lead plating over nickel on termination area
Strain Relief	PBT; Flammability rating – UL94V-0
Front Shell	Steel; Tin-lead plated
Back Shell	Die cast; Nickel plating or polyurethane black enamel

ELECTRICAL AND ENVIRONMENTAL SPECIFICATIONS

Current Rating	1.5 Amp maximum/contact (single contact)	Insulation Resistance	500 MΩ minimum
	0.5 Amp maximum/contact (34 contacts energized)	Rated Voltage	30 V rms
	0.3 Amp maximum/contact (68 contacts energized)	Operating Temperature	-55°C to +85°C
Contact Resistance	60mΩ maximum	Durability	2000 mating cycles

ISOMETRIC VIEWS



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