

# Small in size, big on speed.

Amphenol's HSSDC series
can provide you with
what you need.
Small yet fast, up to 5 Gbps
bandwidth and meets SFF-8420.

FIBRE CHANNEL

1 GB ETHERNET









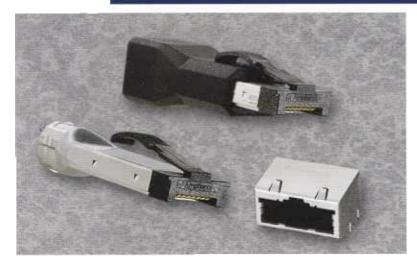


### HIGH SPEED SERIAL DATA CONNECTION

### HSSDC

SERIES

### DESCRIPTION



Amphenol's High Speed Serial Data Connection (HSSDC) interconnection system was developed to meet high speed differential communication protocols with speeds exceeding 1 Gbps such as IEEE 802.3z and Fibre Channel. This system is being used by both Fibre Channel and NGIO (Next Generation Input Output) and is designed to conform with the SFF-8420 specification.

In addition to the standard HSSDC product line Amphenol offers variations with any or all of the following options:

- EMI common mode filtering in the plug
- EMI common mode filtering in the receptacle
- ESD differential pair protection in the plug
- Full ESD protection in the plug
- · Keyed plugs and receptacles

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### **FEATURES**

- Handles data transfer rates exceeding 1 Gbit/sec
- Keyed plugs and receptacles available
- . Meets SFF 8420 specifications
- Common mode filtering available in both plug and receptacles
- Plugs available with integral 30 meter equalization
- Differential and full ESD protection for 15 kV ESD transients available to meet IEEE 1000-4-2 waveforms
- Receptacles are high temperature IR re-flow compatible
- Fully shielded receptacles for improved EMI suppression
- Plug in PCB simplifies and speeds up plug assembly

### PRODUCT SPECIFICATIONS

- Ambient temperature range: -10 C to 50 C
- Rated Voltage: 30 VDC
- Insulation resistance: 100 megaohms min
- Mating Cycles: 500
- Signal Contact Resistance: 35 milliohms maximum initial
- Shield Contact Resistance: 42 milliohms maximum initial
- Current Rating: 1 Amp per contacts (2 non adjacent contacts energized)
- Crosstalk Near End: 3% maximum

Modifier

0-Standard

### ORDERING INFORMATION RECEPTACLE

Style
A-R/A Through Hole
B-SMT Contacts Through Hole Shield
D-PCI Version, R/A Through Hole
E-PCI Version, SMT Contacts Through Hole Shield

Polarization
0-None 2-Right
1-Left 3-Both

Contact Plating 1-30 micro inches gold

2-2 micro inches gold over Pd-Ni

0-No Filtering 1-Ferrite Block

Facsimile: (416) 754-8668 Email sales@amphenolcanada.com

## Amph

Telephone: (416) 291-4401

Number of Ports
1-1 port
2-2 port only for PCI version
3-3 port only for PCI version
4-4 port only for PCI version

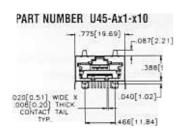
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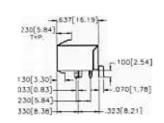
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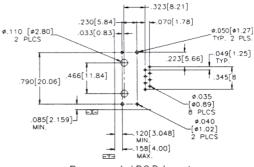
### RECEPTACLE MATERIAL SPECIFICATIONS

Shield	Brass Alloy, Tin plated	
Insulation Material	High temperature glass filled thermoplastic UL 94V-0	
Contact Material	Phosphor Bronze	
Contact Plating	30 micro inches gold minimum over 50 micro inches Ni in mating area, Tin lead over 50 micro inches NI on contact tails	
PCI Bracket	Zinc Die-Cast	

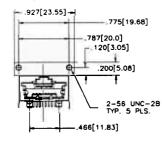
### RECEPTACLE THROUGH HOLE

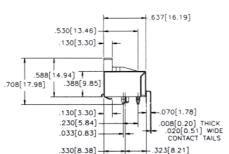




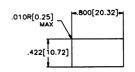


### PART NUMBER U45-Dx1-x10

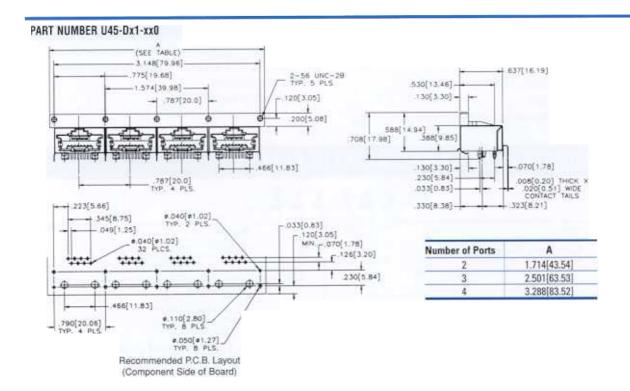




Recommended P.C.B. Layout (Component Side of Board)

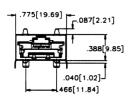


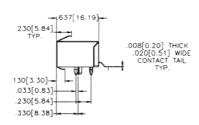
Recommended Panel Cut Out

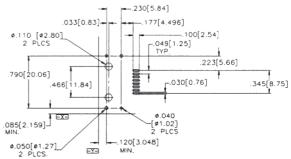


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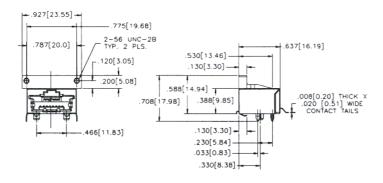
### PART NUMBER U45-Bx1-x10



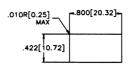




### PART NUMBER U45-Ex1-x10

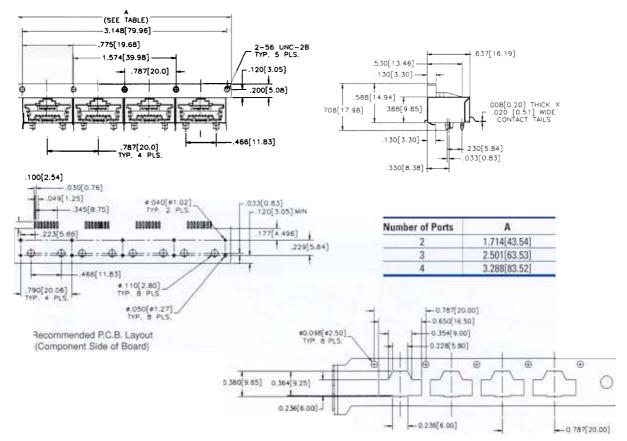


Recommended P.C.B. Layout (Component Side of Board)

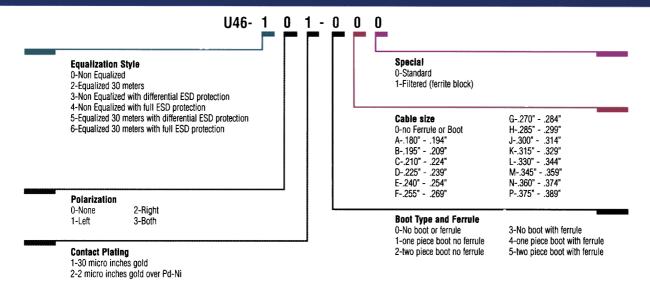


Recommended Panel Cut Out

### PART NUMBER U45-Ex1-xx0



Recommended Panel Cut Out



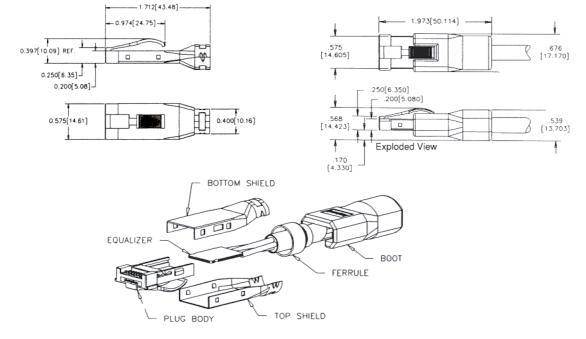
### PLUG MATERIAL SPECIFICATIONS

Shell	Brass Alloy, Tim plated Glass filled thermoplastic UL94V-0
Insulation Material	
Contact Material	Phosphor Bronze
Contact Plating	30 micro inches gold over 50 micro inches NI
Ferrule	Brass Alloy, Tin plated
Root	Soft PVC

### PLUG

### PART NUMBER U46-xx1-0xx

### PART NUMBER U46-xx1-xxx





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