Metral® E1T1 I/O Connectors

Amphenol
FCi

Metral® E1T1 I/O Connector

Introduction

- AFCI offers customized I/O connector systems for E1T1 applications including cable connector and board connector solutions.

- The I/O system offered by AFCI is based on the proven 2mm Metral® connector system.

- E1 and T1 are Telecom Network links meeting European and North American standards for point-to-point digital data transmission based on the use of two pairs of copper wire -- one for transmitting data and one for receiving and can be used to carry voice, data and video.

- Metral® E1T1 I/O connectors provides the E1T1 Interface option in Telecom Equipments including Optical Network Equipments to link with the legacy E1T1 Networks
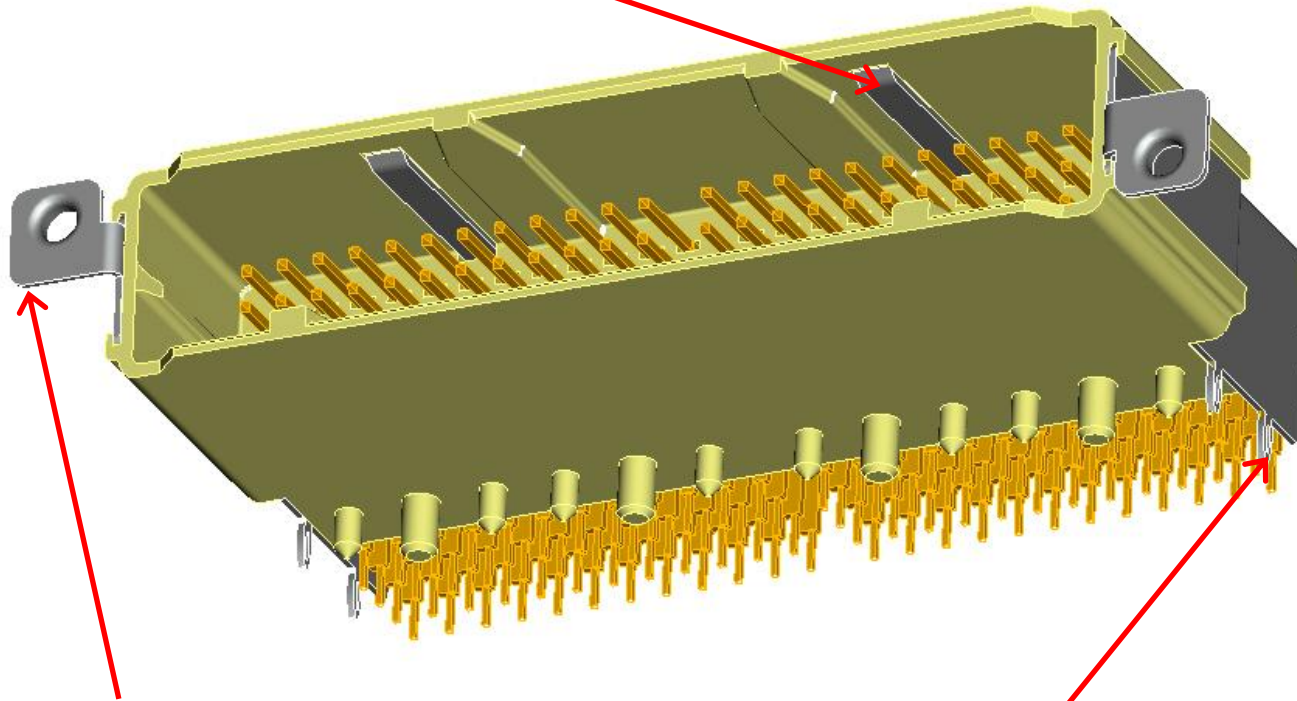
Metral® E1T1 I/O Connector
Header

■ Metral® E1T1 header connector is offered in 4 rows, 24 positions per row for 96 pin (48 Pair) & 4 rows,16 positions per row for 64 pin (32 pair) with flexibility to offer product extensions to meet specific customer requirements.

Features	Benefits
64 pin (32 Pair) & 96 pin (48 Pair)	Flexibility of connector size
Press-fit contact termination	Ease of connector assembly on board
Rectangular connector housing with right angled termination	Simple flat rock termination tool
Connector remains on top of the PCB after assembly	Ease of routing and avoids board cut outs
Metal cage on the outside & metal springs on the inside of the connector body	ESD & EMC protection
Mounting ears on metal cage	Ensures locking with mating cable connector

Metral® E1T1 I/O Connector

Header- Features

Springs for connection to cable connector covers

Mounting ears for screwing cable connector to board connector

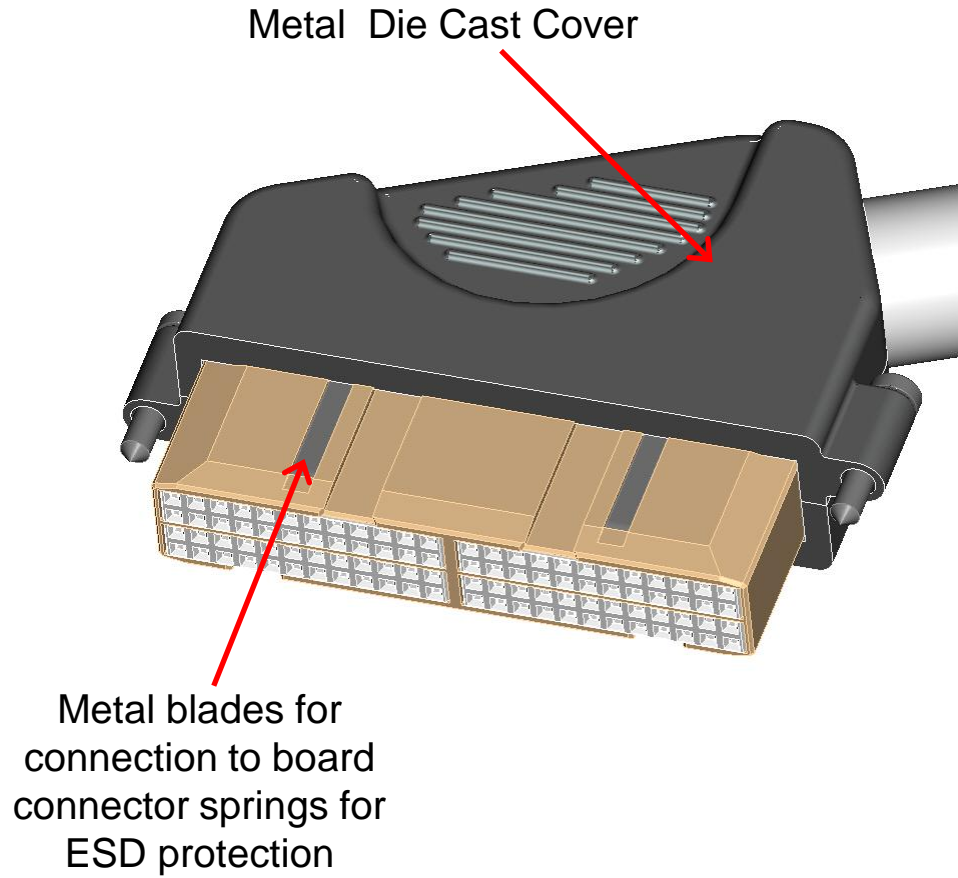Press fit connection of metal cage to pcb

Metral® E1T1 I/O Connector

Receptacle

- Metral® E1T1 cable connector is offered in 4 rows, 24 positions per row for 96 pin (48 Pair) & 4 rows,16 positions per row for 64 pin (32 pair) with flexibility to offer product extensions to meet specific customer requirements.
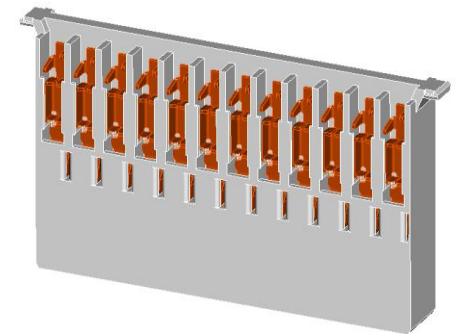
Features	Benefits
64 pin (32 Pair) & 96 pin (48 Pair)	Flexibility of connector size
IDC contact design	Ensures easy termination of cable on connector
Dual beam contact	Reliability
Cable connector is field installable and repairable with simple IDC termination tools	Ease of use
Semi-automated IDC termination tools	Suitable for high volume application
Die cast metal cover for connector and metal springs on the outside of the connector housing	EMC & ESD protection
Locking screws on metal cover	Ensures locking after mating with board connector

Metral® E1T1 I/O Connector

Features- Cable Connector

Metal Die Cast Cover

Cable Terminal block Assembly

Metal blades for connection to board connector springs for ESD protection

Metral® E1T1 I/O Connector

Connector & Application Tooling Part Numbers

Description	Part Number
32 Pair (64 Pin) Cable Connector, AWG 24-26	10089331-101LF
32 Pair (64 Pin) Cable Connector, AWG 28-30	10089331-102LF
32 Pair (64 Pin) RA Header	10089332-101LF
48 Pair (96 Pin) Cable Connector, AWG 24-26	10087038-101LF
48 Pair (96 Pin) Cable Connector, AWG 28-30	10087038-102LF
48 Pair (96 Pin) RA Header	10087068-101LF

Description	Part Number
Semi Automatic IDC Contact TerminationTool	BPY-6748-PC1
Manual IDC Contact TerminationTool	BPY-13848
IDC Repair Tool	BPY-75D25

THANK YOU