

**2.00 mm (.079") Pitch
EMILY[™]
Low Profile Cable Connector
Front I/O – EMI proof**

85372

**EMILY[™] Signal
Cable Assemblies**

Low Profile EMILY[™] Front I/O Connector System combines SMT Pick & Place Board Connectors with shallow positive lock Cable Connectors

EMILY[™] connectors were designed in cooperation with a major telecom equipment manufacturer. The requirement was to combine Signal (6×622 Mbps or 4×1.2 Mbps), Hybrid (4 controls plus 2×5 A), and Power (2×25 A) requirements in one connector system which allows fully automated production of daughter cards (SMT Pick & Place) in a high density shelf system with 15 mm board-to-board spacing. Board connectors come in tape & reel packaging for fully automated production. Cable connectors use fully EMI proof die casted shells with a positive latching system for easy installation.

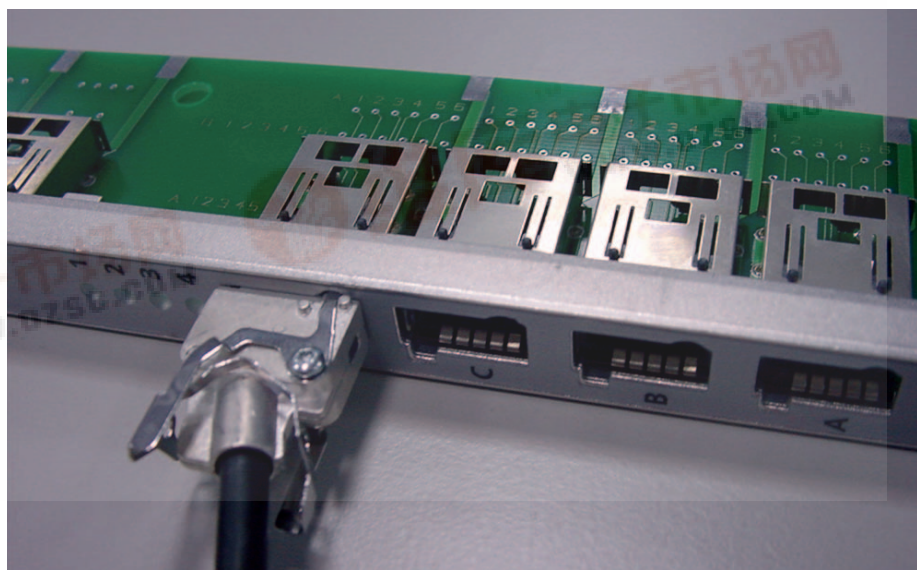
Features and Benefits

- Low profile, for use with 15 mm front-panel
- 2.00 mm $\times$ 2.00 mm grid spacing
- Complete connector family including Signal, Hybrid and Power
- Full EMI shielding by rugged diecast housing
- Polarized mating face
- Cable outlet up- or down-wards
- Latching device for secure mating
- Unlock without tool
- Data rates up to 622 Mbps
- Cable pull is secured by locking system to front panel; no stress on solder joints
- Accommodates STP (Shielded Twisted-Pair) Cable, AWG 30
- Standard cable impedances ranging from 100 Ω to 120 Ω



APPLICATIONS

- Base Stations
- Switching equipment
- Box-to-Box high speed links
- DC Power supplies
- Fan units
- Industrial Controls
- Sensors & Motion Devices
- Medial Equipment



SPECIFICATIONS

[查询"85372"供应商](#)



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Reference Information

Product Specification: PS 85372-001
Packaging: bag/box
Mates with: 85349
Designed in: Millimeters

Electrical

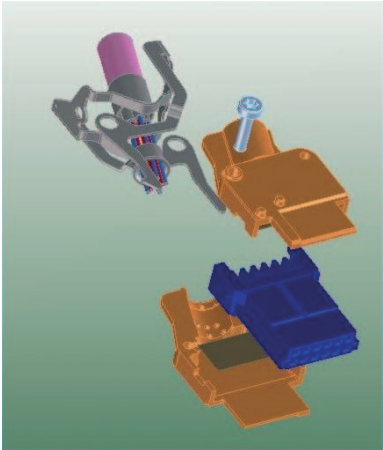
Voltage: 30 Vrms
Current: 0.5 A/contact
Contact Resistance: 35 milliohms max/contact
Dielectric Withstanding Voltage: 500 Vrms
Insulation Resistance: 5000 Megaohms min.

Mechanical

Wire Pull-Out Force: 100 N min
Mating Force: 0.6 N max/contact
Unmating Force locked: >120 N
Unmating Force: 0.1 N min/contact
Durability: 200 cycles

Physical

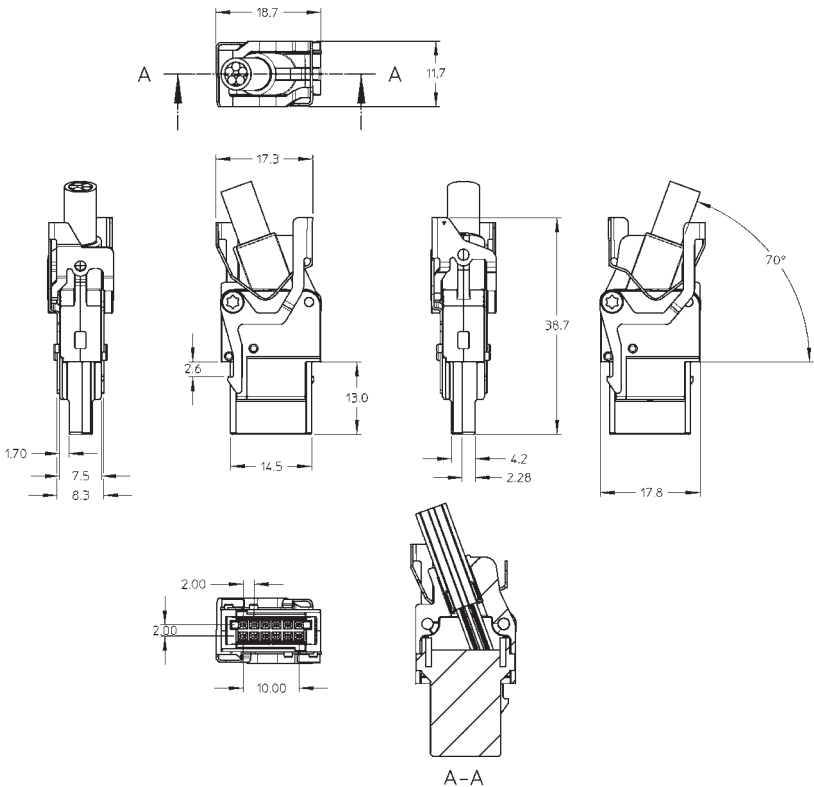
Housing: glass-filled Liquid Crystal
Polymer, UL 94V-0
Contact: CuSn Alloy
Plating: Selective Gold plating 0.76 µm min.
Operating Temperature: -20 to +85 °C
max. Operating Temperature: -20 °C to +70 °C



ORDERING INFORMATION AND DIMENSIONS

Circuits	Loaded Contacts	No. of Signals	Order No.	Decription
12	12	6x622/4x1.2	85372-xxxx	EMILY Signal Cable Assemblies

Dimensions Signal Connector 85372-xxxx



Electrical Test Data: EMILY™ Signal

Test sample:

[查询"85372"供应商](#)

- Cable: AWG 30, Impedance 100 Ohms $\pm$ 10 Ohms, twisted pair
- Connector: EMILY™ Signal Connector (85352-0001)
- Length of Cable Assembly: 5 m

Input:

- Data Pattern: PRBS 7
- Signal Input: 1 V peak to peak
- Bit Rate: 155 Mbps

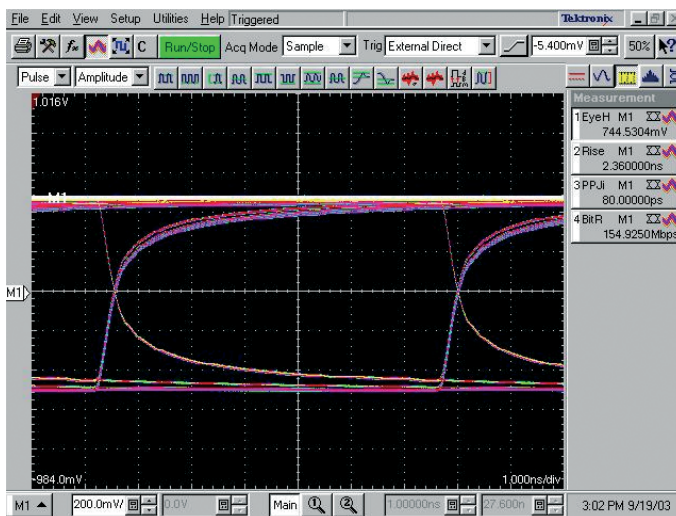


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EYE PATTERN



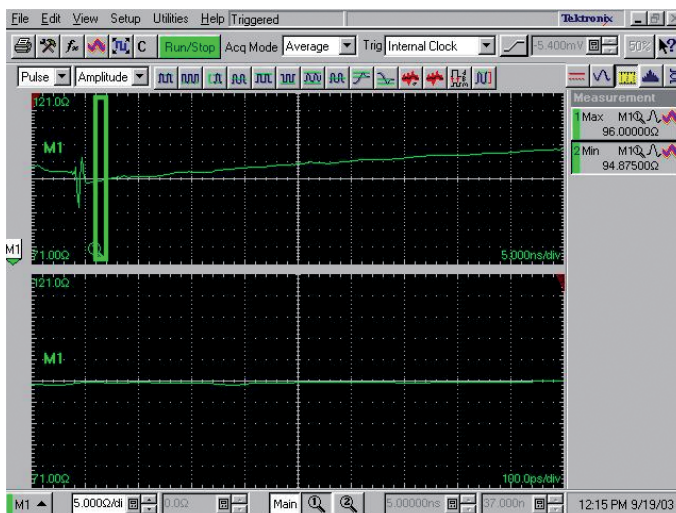
Output:

- Output Eye: 744 mV
- Rise Time: 2,36 ns
- Length of Cable Assembly: 5 m

Input:

- Data Pattern: PRBS 7
- Signal Input: 1 V peak to peak
- Bit Rate: 155 Mbps

IMPEDANCE



Results:

- Minimum Impedance: 94,8
- Maximum Impedance: 96



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