



Amphenol

Amphenol-Tuchel Electronics GmbH

connecting tomorrow

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Application Guide • 2008

Industrial Connectors : Fields of Application

▶ Printing Machines	C146, C016, C091, C112
▶ Textile Production Machines	C146, C016, C091, C112
▶ Soldering Stations / Welding Machines	C091, C146
▶ Video / Audio Systems	C091, C112, C16
▶ Solar / Wind-Power-Generation Systems	C146, C091
▶ Power Tools, Milling-, Drilling-Lathes	C016, C146, C112, C091
▶ Injection Moulding Machines	C146, C016, C091, C112
▶ Robots	C146, C091, C112
▶ Sensors / Proximity Switches	C112, C091
▶ Safety Systems, e. g. Light Barriers	C112, C091
▶ Traffic Control and Monitoring Systems	C112, C091
▶ Motion Control / Electric Motors, etc.	C016, C146, C112, C091, C148
▶ Lighting Sytems	C016, C091 , C112
▶ Food Machines , Refrigeration application	C016 , C146
▶ Transportation accessories	C016 , C146

Your ATE Industrial Connector Solutions

- ▶ **C091 Series** (Signal up to 8 A Thread / Bayonet OD 20 mm)
- ▶ **eco|mate** (Signal up to 16A Thread OD 29 mm)
- ▶ **C16-3** (Signal/Power up to 41A Bayonet)
- ▶ **board|mate** (Power Radsok up to 260 A and more.....)
- ▶ **ground|mate** (Grounding + Power management RADSOK up to 260 A and more....)
- ▶ **quick|mate** (Signal up to 40A)
- ▶ **C146 Series** (Rectangular Signal up to 80A , Pneumatic , Ethernet, USB Integrated)

C091 A/B/D – One of our best sellers

- ▶ Circular 20 mm connector
- ▶ IP 40/65/67 available versions
- ▶ From 2 up to 14 cts available
- ▶ Flex circuit design upon request
- ▶ Crimp Stamped & Formed contacts
- ▶ Custom design on volume projects
- ▶ Panel / PCB / Cable Version available
- ▶ Wire section from 0.090 sqmm to 1.00 sqmm



C091 A/B/D – Areas of Application

- ▶ Fluid management
- ▶ Encoders
- ▶ Soldering stations
- ▶ Antenna system
- ▶ Electric motors
- ▶ Weighing systems
- ▶ Precision Tools
- ▶ Diagnostic Equipment



eco|mate – New Coloured Cable Connectors

▶ New Cable Connectors Coloured

- ▶ Available in 3+PE and 6 + PE inserts
- ▶ 9 Colours
- ▶ Male / Female configurations
- ▶ MOQ 1000 pcs (full connector)
- ▶ Loose backshells available on demand (100 x 5 pcs bulk package)



eco|mate – New High Voltage Version

► New High Voltage Version

- Available in 3 + PE and 6 + PE inserts
- Panel Male / Cable Female available
- Single Hole Panel Receptacle
- 600 V Working Voltage
- Applications : drives, electric vehicles, generators etc....

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|mate by Amphenol

eco|mate^m High Voltage Version



Advantages

- Higher rated voltage within existing housing dimensions
- Easy and quick assembly
- One cable housing for all cable diameters 6-12,5 mm (smaller and bigger diameters upon request)
- Less logistics
- Ergonomically shaped for a better grip and safer handling, even under harsh working conditions
- Applications: motion control, measuring and controlling, lighting systems

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C16-3 New High Current Version

- ▶ **New High Current Version**
 - ▶ **4 + PE insert available**
 - ▶ **Only Male Panel available , for front mounting**
 - ▶ **Screw contacts**
 - ▶ **Wire section up to 6 sqmm**
 - ▶ **IP 65 protection degree**
 - ▶ **600 V rated voltage**
 - ▶ **Application : Solar Inverters , Power Supply , Various**

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C16-3

C16-3 High Current Version



Advantages

- Higher current carrying capacity within existing housing dimensions
- Vibration safe connection by solid bayonet coupling with lock in position
- Needs no special tools because of screw termination
- Degree of protection IP65
- Lightweight and economical plastic housing
- Applications: photo-voltaic systems, general high current applications, machine tools

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eco|mate – Areas of Applications

- ▶ Pumps / Sensors
- ▶ Cooking Machines
- ▶ Zoo-technic equipment
- ▶ Field Installation Tools
- ▶ Agricultural Equipment
- ▶ Welding Machines
- ▶ Heating Elements
- ▶ Transportation Accessories
- ▶ Lighting



ground|mate – High Current RADSOKE

- ▶ **Power / PE Connections**
 - ▶ 6 mm, 8mm (3.6 mm available Q3 2008)
 - ▶ High Current , No screws around.....
 - ▶ Click Fit option
 - ▶ Plastic Covers optional
 - ▶ Up to 260 A working current
 - ▶ PCB Version Available



groundmate & C16-3 High Power areas of application

- ▶ Heavy Equipment Vehicles
- ▶ PV Panels
- ▶ Solar
- ▶ Welding Machines
- ▶ Racks Grounding
- ▶ High Current Drives



C146 – Heavy Duty Rectangular Connector

- ▶ Power / Signal / Ethernet / Pneumatic / USB / Coax connections available
- ▶ Heavy duty connector
- ▶ Stamped & Formed unique technology
- ▶ High Quality
- ▶ Main industrial applications
- ▶ Compatible with Harting, Wieland, ILME , Weidmuller , Contact etc.
- ▶ EMC versions available
- ▶ IP 65 / 67 / 68 Housing & Hoods available



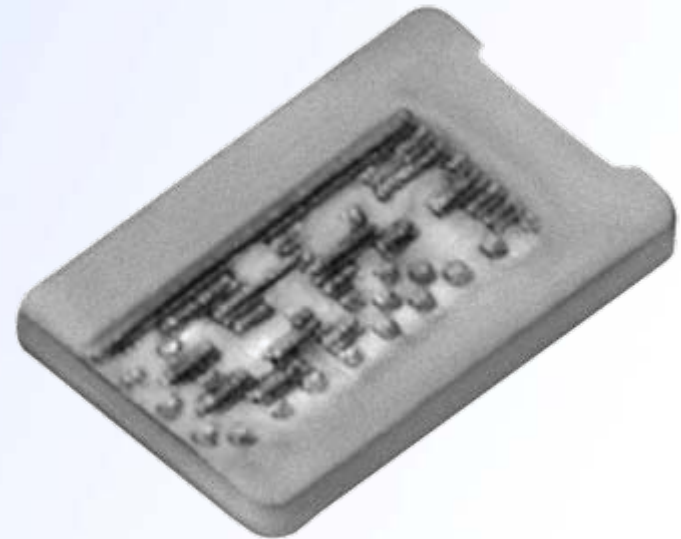
C146 – Areas of application

- ▶ **Printing Machine**
- ▶ **Robots**
- ▶ **Railway**
- ▶ **Rack & Power**
- ▶ **Machine Automation**
- ▶ **Switch Gears**



ID PAD – 2D PCB Identification system

- ▶ 10 Digit Code or 6 letter or letter-figures combination
- ▶ Tape & Reel packaging
- ▶ Operates in high-speed lines
- ▶ Lead Free and RoHs complaint
- ▶ Unambiguos product identifications
- ▶ 2D Matrix code (open std)
- ▶ Time saving on compared to manual & semi-manual application of barcode labels or serial numbers



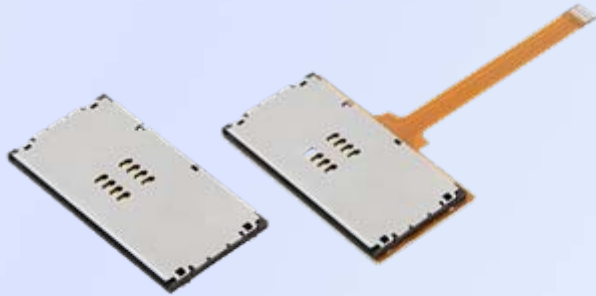
Smart Card Readers : Fields of Application

▶ POS Terminals	C702 , C707, C703
▶ Vending Machines	C702 , C 707 , C703
▶ Banking Equipments	C703 , C702
▶ Access Control	C702 , C703
▶ ID Check Points	C702 , C 703
▶ Data loggers	C702 , C703
▶ Telediagnostic Equipments	C707
▶ Metering Applications	C702 , C707
▶ Set Top Boxes / Decoders	C702 , C707
▶ Parcometers	C702
▶ Wellness Equipments	C702
▶ Multimedia Kiosk	C702 , C703
▶ Digital Tachograph	C702 , C707
▶ Fleet management	C707

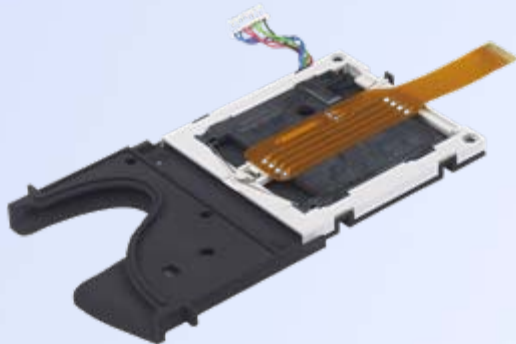
Your ATE Smart Card and SIM Card Connector Solutions

- ▶ **C702 Series (Smart Card Application ISO 7816)**
- ▶ **C703 Series (Smart Card Application ISO 7816 + MagHead)**
- ▶ **C707 Series (SIM / SAM Card Application)**
- ▶ **Battery Connectors + Pogo Pins (Mobile/Palm application)**

C 700 Series News – Latest Smart Card Connectors



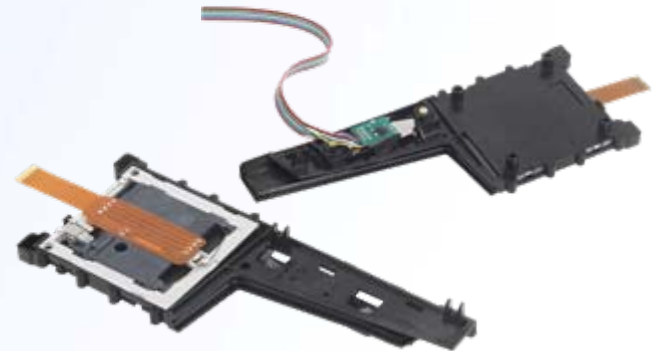
**Slimline XXS “The
smallest on the market”**



**Hybrid Pushmatic “ Mag Head & Chip
Card + Pushmatic System”**



**Landing PCI “Landing contacts for
500.000 mating cycles”**

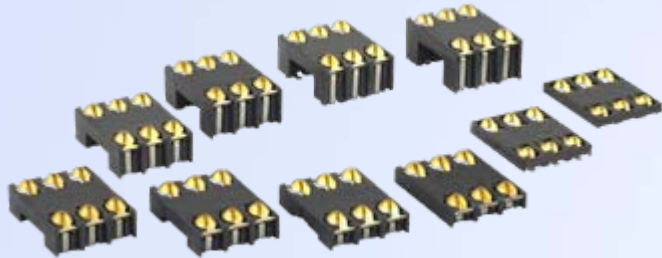


**Hybrid Swipe “For typical swiping
action on Mag Head”**

C 700 Series News – Latest SIM Card Connectors



XXS “Set Top Box and Decoders “



**Scalable SimBlock for SIM / ISO 7816
Card application**



**SimLock for
GSM/GPRS applications**



**WingBlock for
GSM/GPRS applications**

C 700 – Areas of application

- ▶ Vending Machines
- ▶ Fitness Equipment
- ▶ Digital Tachograph
- ▶ Banking
- ▶ Parcometer
- ▶ Set Top Boxes
- ▶ Fleet Management
- ▶ Telediagnostic
- ▶ POS Terminals
- ▶ Gas Pumps



