

## Excellent Integrated System Limited

Stocking Distributor

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[Amphenol Sine Systems](#)  
[C702 10M008 0063](#)

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# Smart Card Connectors

## Series C700



## Note from the CEO



### Ladies and Gentlemen,

For over 75 years Amphenol has enjoyed success as the interconnection technology provider of choice to industry-leading companies around the world. One of our key strategic areas of focus has been and is the Industrial market. Our organization works with leading manufacturers across a wide range of applications - including Energy Generation & Distribution, Transportation, Heavy Equipment, Factory Automation, Wireless Outdoor, ChipCard Readers - enabling smarter, faster and better technologies to connect products to customer solutions.










The Industrial market footprint of Amphenol covers over facilities in more than 12 different European countries and more than 30 countries worldwide. Our successful expansion into new regions as well as new industrial applications is a direct reflection of our agile, entrepreneurial management team and our unwavering commitment to execute Amphenol's strategies for the benefit of our customers, shareholders and employees.

Thank you for partnering with Amphenol. Our entire organization is at your service.



R. Adam Norwitt  
President and CEO, Amphenol Corporation

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	<p>PCB Assembly</p> <p>Free Assembly</p>		



## Applications for Smart Card Connectors

### Payment

- Smart Card Connector for payment terminals
- EMV (Europay Mastercard Visa) and PCI (Payment Card Industry) compliant
- Small form factor

### Vending and Metering

- Smart Card Connectors for vending machines and gas-, water and electricity meters
- Vandalism resistant solutions
- Highly reliable



## Digital Tachograph

- Smart Card Connectors for digital tachograph
- According to automotive specification

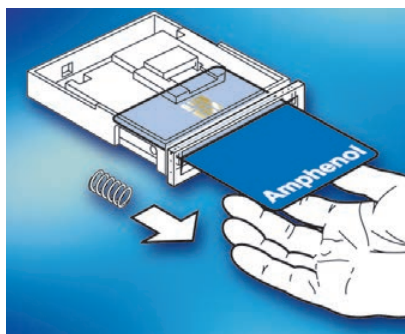
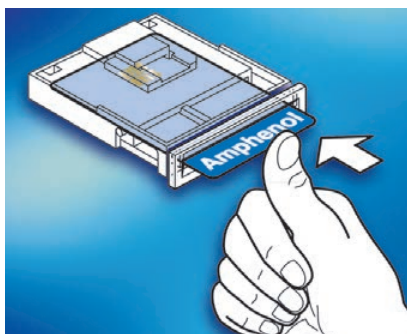


## Digital Satellite Receivers

- Smart Card Connectors for digital satellite receivers and settop box (STB)
- High volume production

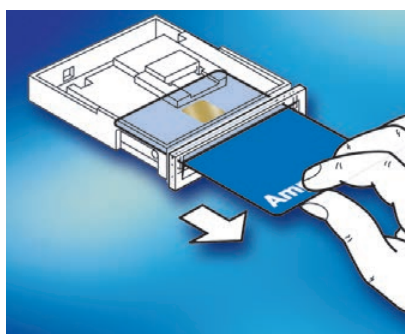
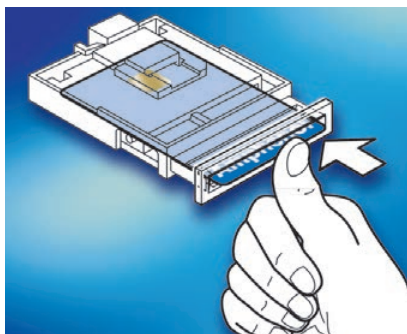


## General Information Card Handling Systems



### Push-Only

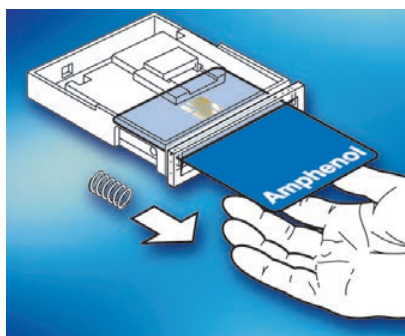
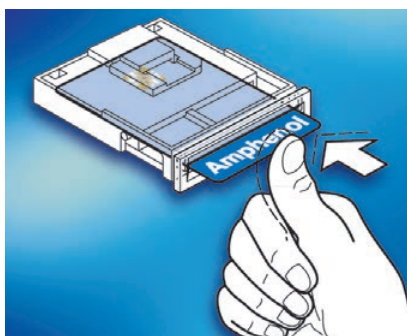
The card is inserted manually and held in the active position by hand. The card is ejected immediately after the user releases it. The Push-Only is ideally suited for applications with short transaction cycles, i.e. door access control.



### Push-Pull

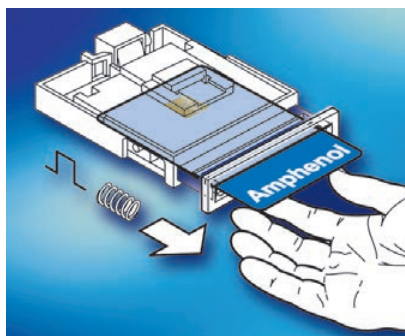
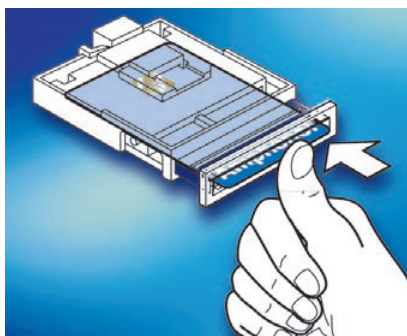
The card is inserted manually and held in the active position by a card brake. After completion of the transaction, the card is simply pulled out of the Smart Card Connector.

This is the most common manual cardhandling system.



### Push-Push

The card is inserted manually and held in the active position by the Smart Card Connector. When pushed again the card is returned to the user (principle of a ballpointpen).

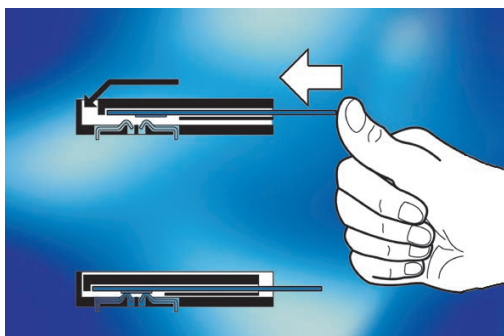


### PUSHMATIC®

This semi-automatic system combines a manual card insertion with an automatic card ejection. The card is manually pushed into the Smart Card Connector until it is flush (or nearly flush) with the bezel.

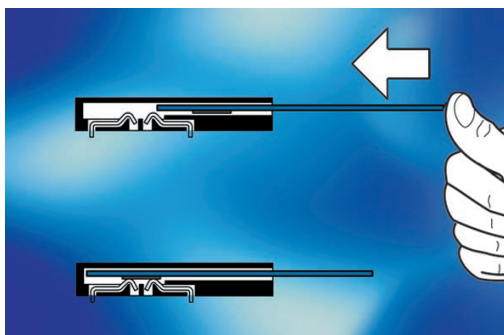
Upon completion of the transaction, software triggers a solenoid and the card is ejected back to the user.

## General Information Contact Methods



### Landing Contacts

With this contact method a moveable contact set will connect with the pads of the chip card upon insertion of the card. The card plastic surface is not scratched and high mating cycles can be achieved.



### Wiping Contacts

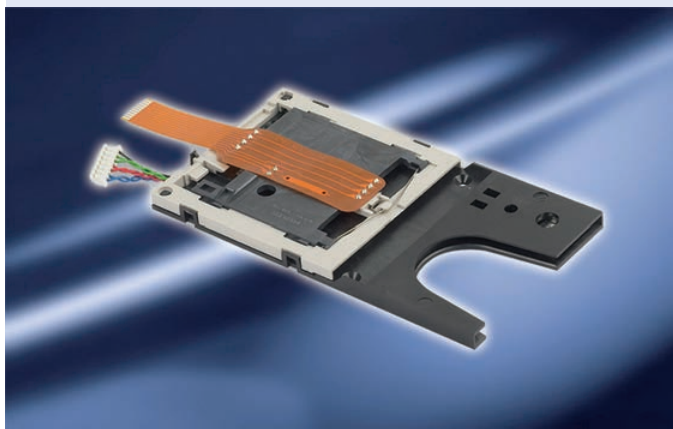
The contact set is fixed. When the card is inserted, it wipes over the data contacts until they arrive at the card pads. Depending upon the card surface, wiping traces which do not influence the card function can occur after some insertion cycles.

The advantage of wiping contacts is that they clean the contact point with every mating cycle.



## C703A Hybrid

### C703A Hybrid Push-Pull

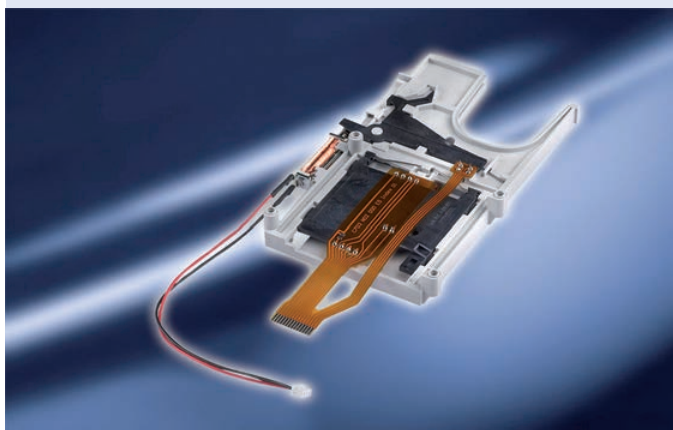


- 500.000 mating cycles for both chip and magnetic stripe
- landing, self-cleaning contacts
- gimballed magnetic head
- card presence switch
- compact design for space critical applications
- card guiding for secure card reading
- Europay Mastercard VISA compliant

#### PART NO.:

C703 10M008 600 5	standard magnetic head, with card break
C703 10M008 601 5	standard magnetic head, no card break
C703 10M008 609 5	superflat magnetic head, no card break

### C703A Hybrid PUSHMATIC®



- 500.000 mating cycles for both chip and magnetic stripe
- landing, self-cleaning contacts
- gimballed magnetic head
- card presence and locking switch
- card locking in active position
- compact design for space critical applications
- card guiding for secure card reading
- Europay Mastercard VISA compliant

#### PART NO.:

C703 10M008 607 5	12V solenoid
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## C702A Vario

### C702A Vario



- 500.000 mating cycles
- landing, self-cleaning contacts
- card presence switch
- accessories available

#### PART NO.:

C702 10M008 015 2	Push-Push
C702 10M008 018 2	Push-Only
C702 10M008 514 2	Push-Pull

### C702A PUSHMATIC®



- 500.000 mating cycles
- landing, self-cleaning contacts
- card presence switch
- accessories available

#### PART NO.:

C702 10M008 701 2	5V, flat cable termination
C702 10M008 700 2	12V, flat cable termination
C702 10M008 702 2	24V, flat cable termination
C702 10M008 732 2	5V, flat cable, locking detector
C702 10M008 716 2	12V, flat cable, locking detector

## C702B PUSHMATIC® II

### C702B PUSHMATIC® II without card locking

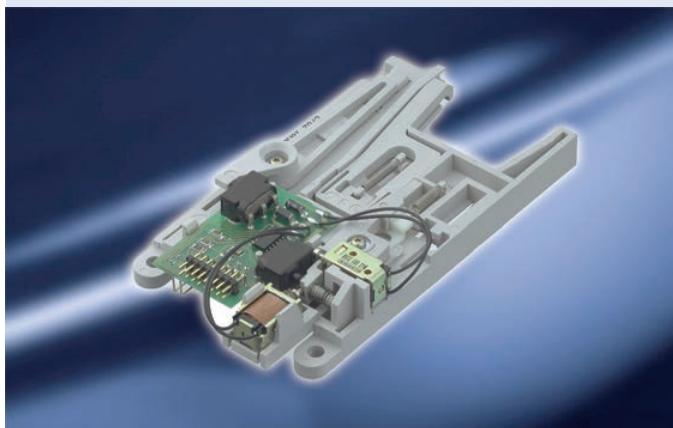


- robust design, suitable for vending machines
- card accessible during power failure
- card presence switch, also can be used for system wake up
- card end position switch acts as card locking sensor
- additional sensor for card active position detects abnormal termination of the transaction
- self retracting and self cleaning data contacts provide protection against vandalism
- housing bottom features a large debris slot allowing the egress of coins, paper, as well as cut in half cards
- 16 way interface header allows for custom cabling
- 300.000 mating cycles

#### PART NO.:

C702 10M008 906 2	5V	solenoid voltage
C702 10M008 904 2	12V	solenoid voltage
C702 10M008 909 2	24V	solenoid voltage

### C702B PUSHMATIC® II with card locking



- card locked in active position
- robust design, suitable for vending machines
- card end position switch acts as card locking sensor
- additional sensor for card active position detects abnormal termination of the transaction
- self retracting and self cleaning data contacts provide protection against vandalism
- housing bottom features a large debris slot allowing the egress of coins, paper, as well as cut in half cards
- 16 way interface header allows for custom cabling
- 300.000 mating cycles
- as an option feature to release card in locked position (SCR)

#### PART NO.:

C702 10M008 907 2	5V	solenoid voltage
C702 10M008 905 2	12V	solenoid voltage
C702 10M008 910 2	24V	solenoid voltage

## Accessories

### C702A Accessories

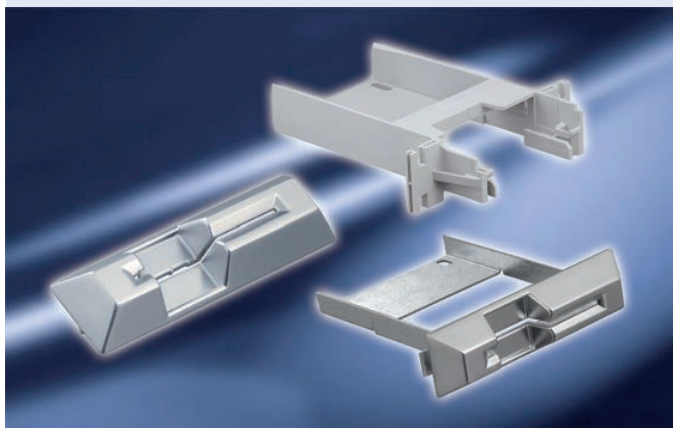


- customized bezels on request

**PART NO.:**

C702 N13 030 E2 (for PUSHMATIC)	metal bezel, silver coloured
C702 N13 031 E2 (for PUSHMATIC)	metal bezel, black coloured
C702 N14 030 E2 (for PUSHMATIC)	metal bezel with coin spacer, silver coloured
C702 N15 100 G2	mounting plate
C702 N11 141 E2	plastic bezel, black
C702 N14 000 G2	Shutter

### C702B Accessories



- Amphenol's original guarantees well function

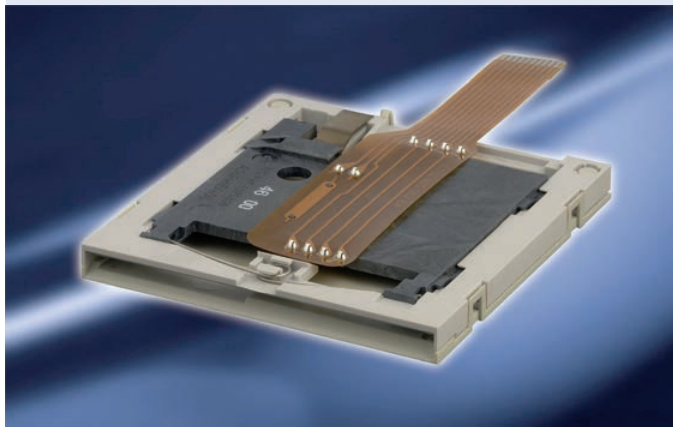
**PART NO.:**

C702 G46 100 G2	metal bezel with "coin spacer" silver coloured
C702 G46 201 G2	metal bezel with "coin spacer" and rain refusing, silver coloured
C702 G51 112 E2	mounting plate, tin plated
C702 N25 040 E2	plastic adapter for common standard bezels



## C702D Flex

### C702D Flex Basis

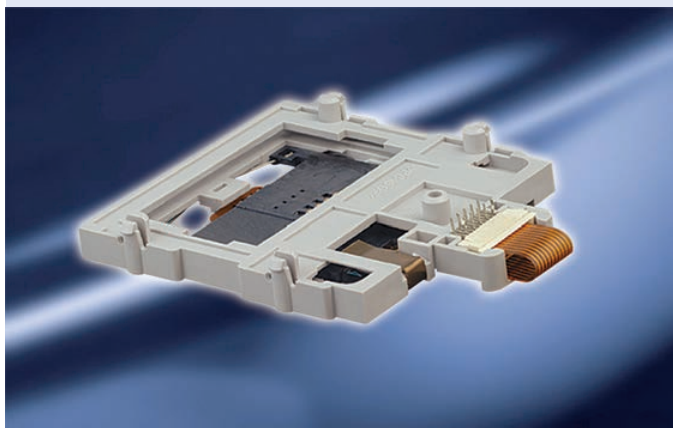


- miniaturized style, ideally suited for mobile devices like POS terminals
- 300.000 mating cycles
- with flexprint termination to save boardspace

**PART NO.:**

C702 10M008 065 4

### C702D Flex Snap in



- snap in mounting, chip side up card insertion
- debris slot to provide egress of coins, paper
- miniaturized style, ideally suited for mobile devices like POS terminals
- 300.000 mating cycles
- with flexprint termination and as an option dip solder version

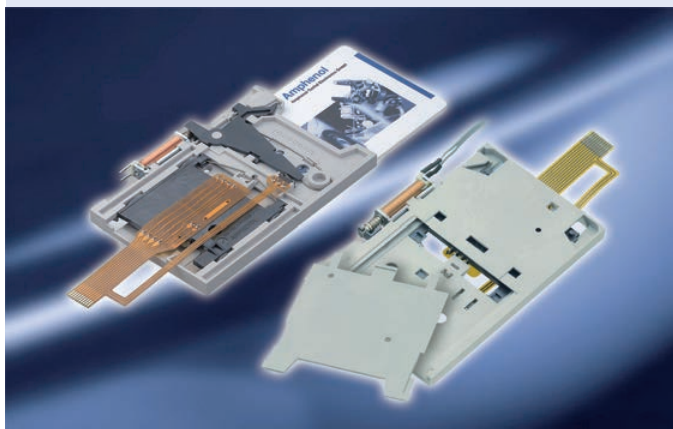
**PART NO.:**

C702 10M008 063 4      Dip Solder

C702 10M008 066 4      Flexprint

## C702C PUSHMATIC® Slim

### C702C PUSHMATIC® Slim



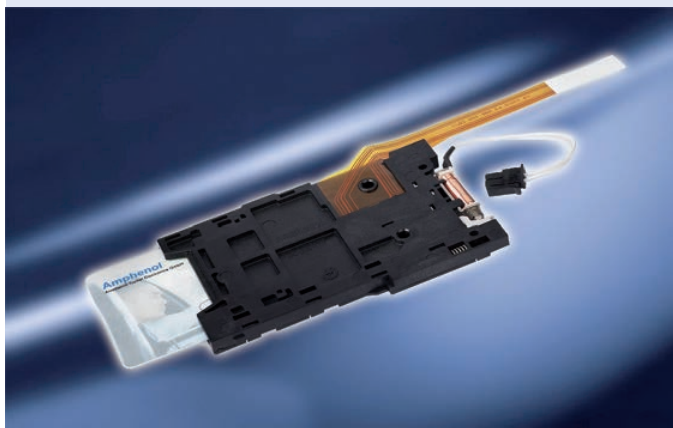
- 300.000 mating cycles
- landing, self-cleaning contacts
- card locking in active position
- automatic card ejection after transaction
- manual unlocking after power failure possible
- card presence and locking switch

#### PART NO.:

C702 10M008 901 4 5V

C702 10M008 902 4 12V

### C702C Automotive Connector



- designed for digital tachograph
- card locking
- ejection over solenoid
- integrated dust protection
- working temperature -40 °C – +85 °C
- shock resistance min. 20 G (in direction of solenoid axis)
- min. 25.000 mating cycles

#### PART NO.:

C702 10M008 925 4

## C702E Wiping

### C702E Wiping XXS



- self cleaning card present switch
- normally open or normally closed switch
- boardlocks for mechanical fixation
- special shape of contacts minimizes card scratching
- PCB mounting, dip solder pins
- dimensions 62x40x7.2 mm
- 100.000 mating cycles

#### PART NO.:

C702 10M008 230 40	XXS Standard, normally closed switch
C702 10M008 231 40	XXS Standard, normally open switch
C702 10M008 232 40	XXS 3mm stand-off, normally closed switch
C702 10M008 234 40	XXS 5mm stand-off, normally closed switch

## C702G Wiping

### C702G PCB-Slimline



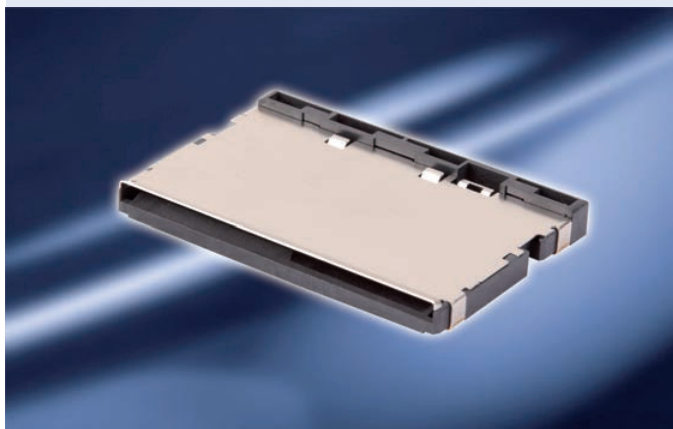
- extremely compact dimensions (56 x 30 x 3 mm)
- metal cover for high mechanical stability (only one card in slot)
- protected switch
- for pick & place assembly
- reflow compliant
- 100,000 mating cycles

#### PART NO.:

C702 10M008 252 40	with position pins
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## C702F Card|mate®

### C702F Card|mate®



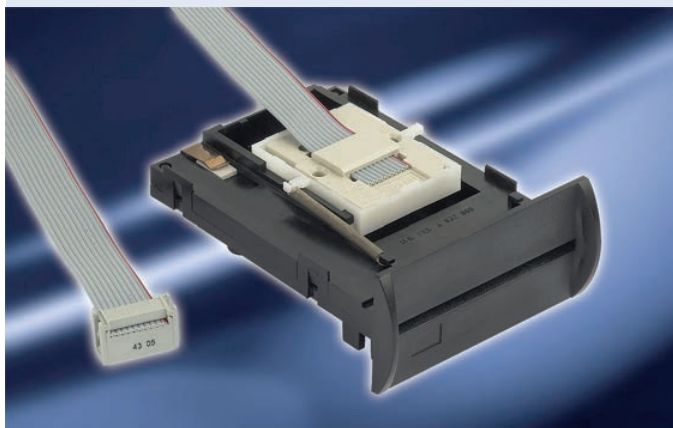
- 500.000 mating cycles
- landing contacts
- very smooth card insertion
- reduced signs of wear on the smart card
- metal cover, low profile, high mechanical strength
- designed according to the Payment Card Industry requirements

**PART NO.:**

C702 10M008 320 4

## C702Y Landing EZ

### C702Y Landing EZ



- 300.000 mating cycles
- landing, self-cleaning contacts
- card presence switch
- flat cable and flexprint termination

**PART NO.:**

C702 10M008 071 3 integrated bezel,  
flat cable termination

C702 10M008 006 3 without bezel,  
flat cable termination



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