

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

Contents



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





DB-m@p

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 inthe 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 highmating 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

C702A Vario

C702A Vario



- 500.000 mating cycles
- landing, self-cleaning contacts

Push-Push Push-Only Push-Pull

- card presence switch
- accessories available

PART NO.:

C702	10M008 0	15 2
C702	10M008 0	18 2
C702	10M008 5	14 2

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

Accesories

C702A Accessories



customized bezels on request

PART NO.:

C702 N13 030 E2 (for PUSHMATIC) C702 N13 031 E2 (for PUSHMATIC) C702 N14 030 E2 (for PUSHMATIC) C702 N15 100 G2 C702 N11 141 E2 C702 N14 000 G2 metal bezel, silver coloured

metal bezel, black coloured

metal bezel with coin spacer, silver coloured mounting plate plastic bezel, black Shutter

C702B Accessories



• Amphenol's original guarantees well function

PART NO.:

C702 G46 100 G2 C702 G46 201 G2

C702 G51 112 E2 C702 N25 040 E2 metal bezel with "coin spacer" silver coloured metal bezel with "coin spacer" and rain refusing, silver coloured mounting plate, tin plated 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 C702 10M008 066 4 Dip Solder 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)

with position pins

- 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

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

International

Argentina

Amphenol Argentina Av. Callao 930 2nd Floor Office B "Plaza" C1023 AAP Buenos Aires Phone +54 11 4815 68 86 www.amphenol.com.ar

Australia

Amphenol Australia Pty. Ltd. 2 Fiveways Blvd Keysborough Victoria 31 73 Phone +61 3 8796 88 88 www.amphenol.com.au

Brazil

Amphenol do Brasil Ltda. Rua Diogo Moreira 132, 20th Floor CEP 05423-101 Sao Paulo SP Phone +55 11 3815 10 03 www.amphenol.com.br

China

Amphenol-Tuchel Electronics China Branch 20 Tianshan Road Changzhou 213022 Phone +86 519 8511 0301 www.amphenol.info

France

Amphenol Socapex S.A.S. 948, Promenade de l'Arve, BP 29 Thyez Cedex, 74311 Phone +33 4 5089 28 00 www.amphenol-socapex.com

Germany

Amphenol-Tuchel Electronics GmbH August-Haeusser-Str. 10 74080 Heilbronn Phone +49 7131 929 0 www.amphenol.de

India

Amphenol Interconnect India Pvt Ltd 105, Bhosari Industrial Area Pune – 411 026 Phone +91 20 2712 04 81 www.amphenol-in.com

Italy

Amphenol-Tuchel Italy Via Barbaiana n. 5 20020 Lainate (MI) Phone +39 02 9325 41 www.amphenol.info

Korea

Amphenol DaeShin Elect and Precision Co.,Ltd 558 Songnae-Dong, Sosa-Gu Bucheon-City, Kyunggi-Do Korea 422-130 Phone +82 32 6103 800 www.amphenol.co.kr

Mexico

Amphenol Mexico Prolongacion Reforma 61 - 6 B2 Col. Paseo de las Lomas C.P. 01330 Mexico D.F. Phone +52 55 5258 99 84 www.amphenolmexico.com

Singapore

Asia Pacific Sales Operations 72 Bendemeer Rd, No.03-32/33 Hiap Huat House, Luzerne, 339941 Singapore Phone +65 6294 21 28 www.amphenol.com

South Africa

Amphenol International Ltd Chislehurston 30 Impala Road 2196 Chislehurston Sandton, 2146 Phone +27 11 7839 517 www.amphenol.co.za

Spain

Amphenol Espana Edificio Burgosol, Oficina 55 C/Comunidad de Madrid, 35 bis Las Rozas (Madrid), 28230 Phone +34 91 6407 302 www.amphenol.com

Taiwan

Amphenol East Asia Limited-Taiwan 5F, No 361, Fusing 1st Rd Gueishan Township, Taoyuan County 333 Phone +886 3 2647 200 www.amphenol.com

More Amphenol companies can be found here: www.amphenol.com

Turkey

Amphenol Turkey Sun Plaza Kat: 15 Maslak Mah. Bilim Sok.No:15 34398 Sisli - Istanbul Phone: +90 2123 679 220 www.amphenol.com.tr

United Kingdom

Amphenol Limited Thanet Way, Whitstable Kent, CT53JF Phone +44 1227 773 200 www.amphenol.co.uk

USA

Amphenol-Tuchel Electronics 6900 Haggerty Road Suite 200 Canton, Michigan 48187 Phone +1 7344 516 400 www.amphenol.info

Amphenol Corporation Corporate Headquarters 358 Hall Avenue Wallingford, CT 06492 Phone +1 877 2674 366 Phone +1 203 2658 900 www.amphenol.com

Important Notice

All technical data have been measured in a laboratory environment and can be different during practical usage of the product. Any product information is for descriptive usage only and not legally binding; particularly the information does not constitute or provide any legal guaranties ("Beschaffenheitsgarantie" or "Haltbarkeitsgarantie").

We reserve the right to change the design due to improvement in quality, development or production requirements. This catalogue must not be used in any form or manner without our prior approval in writing (Copyright Law, Fair Trading Law, Civil Code).

Your engineering sales representative:

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Amphenol:

<u>C702 10M008 234 40</u> <u>C703 10M008 609 5</u> <u>C702 10M008 066 4</u> <u>C702 10M008 232 40</u> <u>C702 10M008 215 40</u> <u>C702</u> <u>10M008 906 2</u> <u>C702 10M008 701 2</u> <u>C702 10M008 902 4</u> <u>C703 10M008 601 5</u> <u>C702 10M008 909 2</u> <u>C703 10M008</u> <u>600 5</u> <u>C702 N25040 E2</u> <u>C702 10M008 514 2</u> <u>C702 10M008 910 2</u> <u>C702 10M008 904 2</u> <u>C702 10M008 231 40</u> <u>C702</u> <u>10M008 702 2</u> <u>C702 10M008 905 2</u> <u>C702 10M008 907 2</u> <u>C702 10M008 015 2</u> <u>C702 10M008 018 2</u> <u>C702 10M008</u> <u>700 2</u> <u>C702 10M008 063 4</u> <u>C703 10M008 607 5</u> <u>C702 10M008 732 2</u> <u>C702 10M008 716 2</u> <u>C702 10M008 901 4</u> <u>C702 10M008 001 4</u> <u>C702 10M008 065 4</u>