

CK 3 and 4 poles + ⊕ 10A - 250V



enclosures:
size "21.21"

page:

insulating type	201 - 202
metallic type	203 - 205
aggressive environments	325
EMC	343
IP68	372 - 373

- can be mated with CKS inserts

¹⁾ the female inserts can be mounted into the straight bulkhead housings CK I from the rear

inserts, 3 poles + ⊕ screw terminal connections

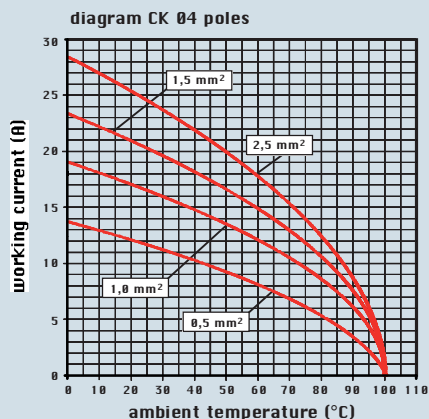
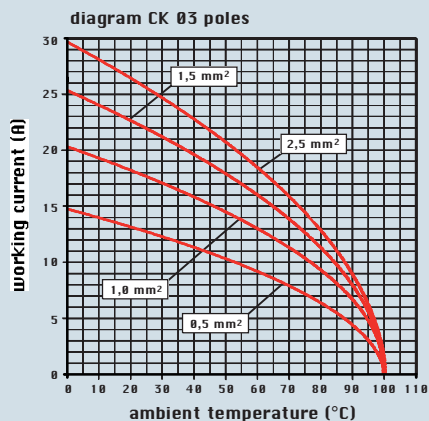


silver
plated
contacts

description	part No.	part No.
distinctive colour	white	black
female inserts with female contacts ¹⁾	CKF 03	CKF 03 N
male inserts with male contacts	CKM 03	CKM 03 N

distinctive colour
female inserts with female contacts ¹⁾
male inserts with male contacts

- characteristics according to EN 61984:
10A 250V 4kV 3
10A 230/400V 4kV 2
- UL, CSA, CCC, GL, GOST certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: $-40^\circ\text{C} \dots +100^\circ\text{C}$
- are made of self-extinguishing thermoplastic resin UL 94 V1
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 1 \text{ m}\Omega$
- for maximum current load, see the following load curves inserts, for more information see page 492



dimensions shown are not binding
and may be changed without notice

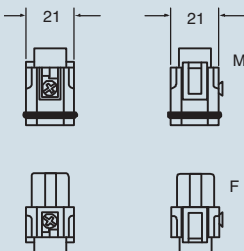
inserts, 4 poles + ⊕ screw terminal connections



silver
plated
contacts

description	part No.	part No.
distinctive colour	white	black
female inserts with female contacts ¹⁾	CKF 04	CKF 04 N
male inserts with male contacts	CKM 04	CKM 04 N

dimensions in mm

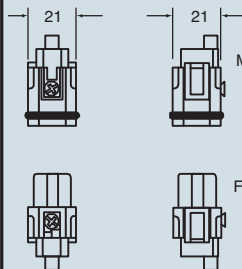


contacts side (front view)

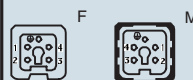


- inserts for connectors with the following sections:
0.75 - 2.5 mm² - AWG 18 - 14
- conductors stripping length: 6 mm
- terminal screw torque: 0.5 Nm (4.4 lb.in), for more information see page 21 and 22

dimensions in mm



contacts side (front view)



- inserts for connectors with the following sections:
0.75 - 2.5 mm² - AWG 18 - 14
- conductors stripping length: 6 mm
- terminal screw torque: 0.5 Nm (4.4 lb.in), for more information see page 21 and 22

enclosures:
size "21.21"

page:

insulating type	201 - 202
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IP68	372 - 373

- can be mated with CK inserts

inserts, 3 poles + ⊕
connection with spring terminal



silver
plated
contacts

inserts, 4 poles + ⊕
connection with spring terminal



silver
plated
contacts

description

part No.

part No.

female inserts with female contacts
male inserts with male contacts

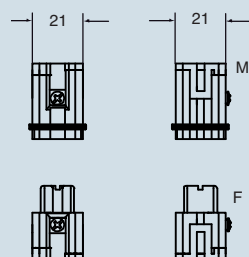
CKSF 03
CKSM 03

female inserts with female contacts
male inserts with male contacts

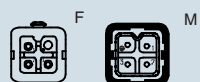
CKSF 04
CKSM 04

- characteristics according to EN 61984:
10A 400V 4kV 3
- certifications: cUL (UL for USA and Canada), CSA, CCC, GOST
- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: $-40^\circ\text{C} \dots +125^\circ\text{C}$
- are made of self-extinguishing thermoplastic resin UL 94 V0
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 1 \text{ m}\Omega$
- for maximum current load, see the following load curves inserts, for more information see page 492

dimensions in mm

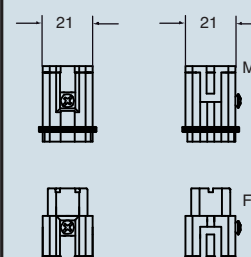


contacts side (front view)



- inserts for wires with the following sections:
0.14 - 2.5mm² - AWG 26 - 14
for prepared wires
usable section: up to 1.5 mm² (AWG 16)
- conductors stripping length: 9...11 mm

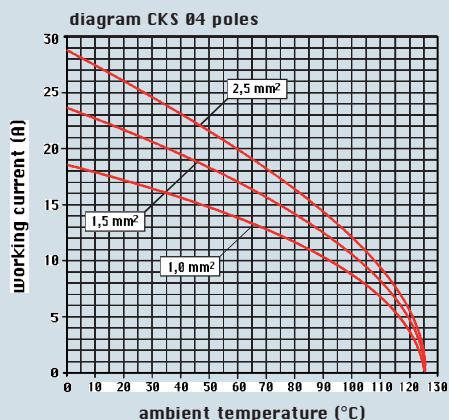
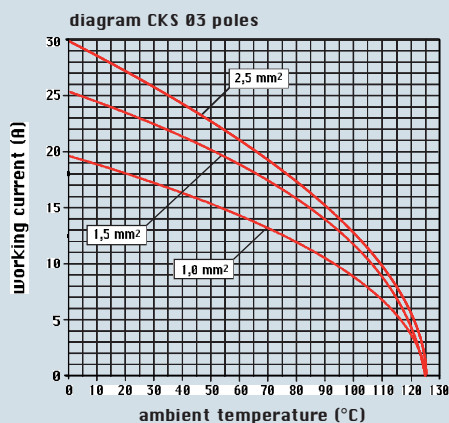
dimensions in mm



contacts side (front view)

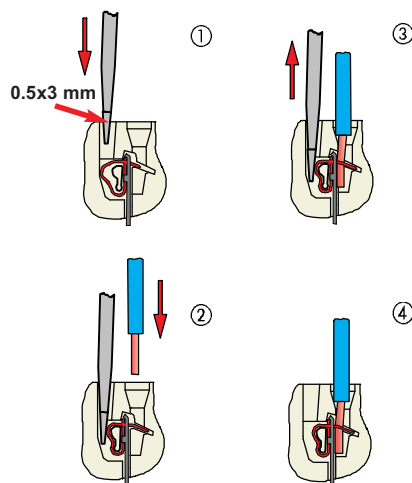


- inserts for wires with the following sections:
0.14 - 2.5mm² - AWG 26 - 14
for prepared wires
usable section: up to 1.5 mm² (AWG 16)
- conductors stripping length: 9...11 mm

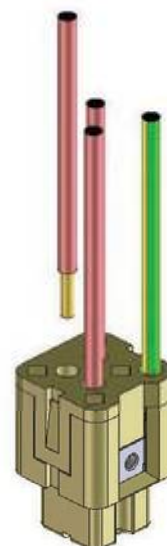


dimensions shown are not binding
and may be changed without notice

Connection with spring terminal



Rear top entry of wires for a more easier wiring



enclosures:
size "21.21"

page:

insulating type	201 - 202
metallic type	203 - 205
aggressive environments	325
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IP68	372 - 373

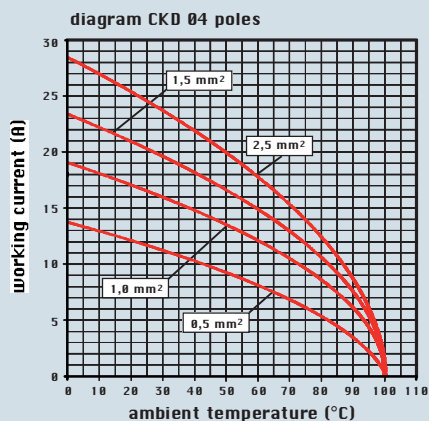
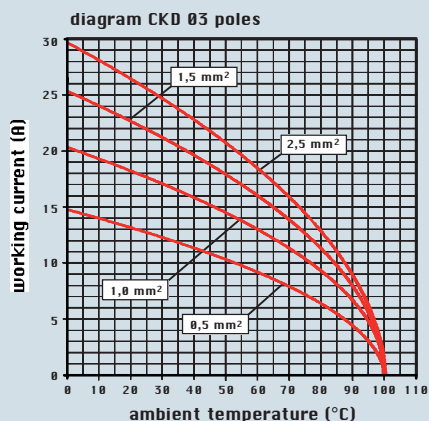
¹⁾ the female inserts can be mounted into the straight bulkhead housings CK I from the rear

description

female inserts with female contacts ¹⁾
male inserts with male contacts

female inserts with female contacts ¹⁾
male inserts with male contacts

- characteristics according to EN 61984:
10A 250V 4kV 3
10A 230/400V 4kV 2
- UL, CSA, CCC, GL, GOST certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: $-40^\circ\text{C} \dots +100^\circ\text{C}$
- are made of self-extinguishing thermoplastic resin UL 94 V1
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 1 \text{ m}\Omega$
- for maximum current load, see the following load curves inserts, for more information see page 492



dimensions shown are not binding
and may be changed without notice

inserts, 3 poles + ⊕
screw terminal connections



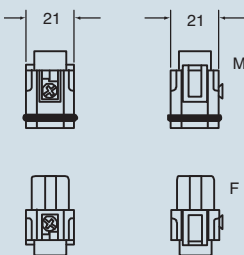
gold
plated
contacts

NEW

part No.

CKFD 03
CKMD 03

dimensions in mm



contacts side (front view)



- inserts for connectors with the following sections:
0.75 - 2.5 mm² - AWG 18 - 14
- conductors stripping length: 6 mm
- terminal screw torque: 0.5 Nm (4.4 lb.in), for more information see page 21 and 22

inserts, 4 poles + ⊕
screw terminal connections



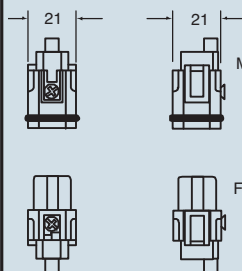
gold
plated
contacts

NEW

part No.

CKFD 04
CKMD 04

dimensions in mm



contacts side (front view)



- inserts for connectors with the following sections:
0.75 - 2.5 mm² - AWG 18 - 14
- conductors stripping length: 6 mm
- terminal screw torque: 0.5 Nm (4.4 lb.in), for more information see page 21 and 22

If all the contacts are used, the CD inserts series connectors may be used with voltages of up to 250V (first column) pollution degree 3 in accordance with the standard EN 61984.

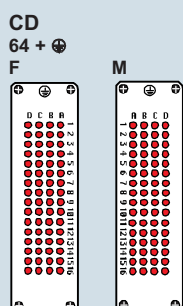
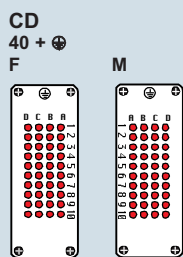
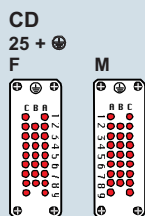
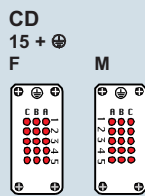
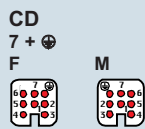
If the number of contacts is reduced and the contacts accordingly assigned, these connectors may be used with higher voltages. This is possible because the decrease in the number of contacts leads to an increase in the surface distance in the air. When the contacts are arranged as shown below, the inserts may be used for voltages of 500V (second column) pollution degree 3 in accordance with the standard EN 61984.

Legend:

- working contact
- without contact
- M = male insert
- F = female insert

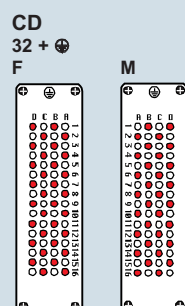
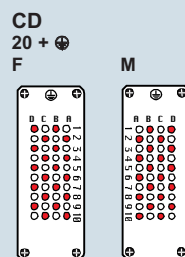
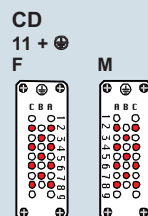
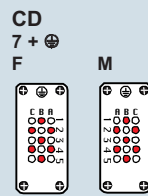
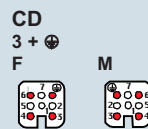
for use up to 250V
pollution degree 3

diagrams
contacts side (front view)



for use up to 500V
pollution degree 3

diagrams
contacts side (front view)



enclosures:

size "21.21"

page:

insulating type page: 201 - 202

inserts, crimp connections

10A crimp contacts
silver and gold plated

¹⁾ the female inserts can be mounted into the straight bulkhead housings CK I from the rear

description	part No.	part No.	part No.	part No.
without contacts (to be ordered separately)				
female inserts for female contacts, grey and black ¹⁾	grey	black		
male inserts for male contacts, grey and black	CDF 07	CDF 07 N		
	CDM 07	CDM 07 N		

10A female contacts

0.14-0.37 mm ²	AWG 26-22	identification No. 1
0.5 mm ²	AWG 20	identification No. 2
0.75 mm ²	AWG 18	identification No. ②
1 mm ²	AWG 18	identification No. 3
1.5 mm ²	AWG 16	identification No. 4
2.5 mm ²	AWG 14	identification No. 5

10A male contacts

0.14-0.37 mm ²	AWG 26-22	identification No. 1
0.5 mm ²	AWG 20	identification No. 2
0.75 mm ²	AWG 18	identification No. ②
1 mm ²	AWG 18	identification No. 3
1.5 mm ²	AWG 16	identification No. 4
2.5 mm ²	AWG 14	identification No. 5

CDFA 0.3
CDFA 0.5
CDFA 0.7
CDFA 1.0
CDFA 1.5
CDFA 2.5

silver plated

CDFD 0.3
CDFD 0.5
CDFD 0.7
CDFD 1.0
CDFD 1.5
CDFD 2.5

gold plated

CDMA 0.3
CDMA 0.5
CDMA 0.7
CDMA 1.0
CDMA 1.5
CDMA 2.5

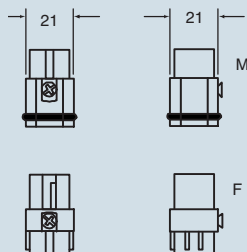
CDMD 0.3
CDMD 0.5
CDMD 0.7
CDMD 1.0
CDMD 1.5
CDMD 2.5

- characteristics according to EN 61984:

10A 250V 4kV 3**10A 230/400V 4kV 2**

- UL, CSA, CCC, GL, GOST certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: ≥ 10 GΩ
- ambient temperature limit: -40 °C ... +125 °C
- are made of self-extinguishing thermoplastic resin UL 94 V0
- mechanical life: ≥ 500 cycles
- contact resistance: ≤ 3 mΩ
- for applications requiring higher voltages, please see the special voltage application section on page 44
- for contact crimping instructions, please see the crimping tool section (10A contacts, CDF and CDM series) on pages 466, 470, 480, 482, 484, 486
- for maximum current load, see the following load curves inserts, for more information see page 493

dimensions in mm



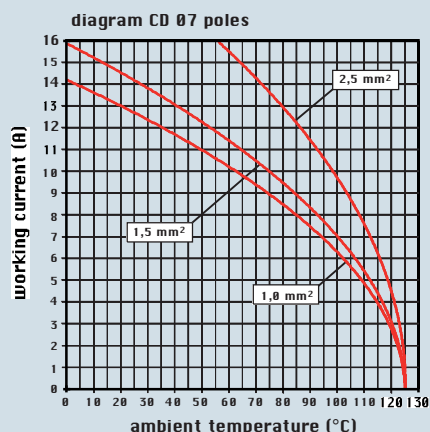
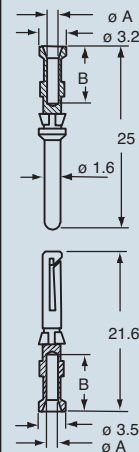
contacts side (front view)



coding pin with loss of a contact CR CP, page 431



dimensions in mm



dimensions shown are not binding
and may be changed without notice

CDF and CDM contacts

conductor section	conductor slot	conductors stripping length
mm ²	ø A (mm)	B (mm)
0.14-0.37	0.9	8
0.5	1.1	8
0.75	1.3	8
1.0	1.45	8
1.5	1.8	8
2.5	2.2	6

enclosures:

size "21.21"

page:

insulating type	201 - 202
metallic type	203 - 205
aggressive environments	325
EMC	343
IP68	372 - 373

¹⁾ the female inserts can be mounted into the straight bulkhead housings CK I from the rear

inserts, crimp connections



10A crimp contacts silver and gold plated



description

part No.

part No.

part No.

without contacts (to be ordered separately)
female inserts for female contacts ¹⁾
male inserts for male contacts

CDF 08
CDM 08

10A female contacts

0.14-0.37 mm ²	AWG 26-22	identification No. 1
0.5 mm ²	AWG 20	identification No. 2
0.75 mm ²	AWG 18	identification No. ②
1 mm ²	AWG 18	identification No. 3
1.5 mm ²	AWG 16	identification No. 4
2.5 mm ²	AWG 14	identification No. 5

10A male contacts

0.14-0.37 mm ²	AWG 26-22	identification No. 1
0.5 mm ²	AWG 20	identification No. 2
0.75 mm ²	AWG 18	identification No. ②
1 mm ²	AWG 18	identification No. 3
1.5 mm ²	AWG 16	identification No. 4
2.5 mm ²	AWG 14	identification No. 5

- characteristics according to EN 61984:

10A 50V 0,8kV 3

- UL, CSA, CCC, GL, GOST certified

- rated voltage according to UL/CSA: 50V

- insulation resistance: $\geq 10 \text{ G}\Omega$

- ambient temperature limit: -40 °C ... +125 °C

- are made of self-extinguishing thermoplastic resin UL 94 V0

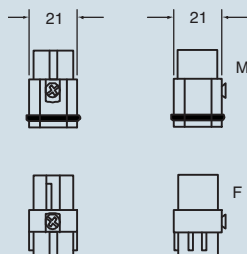
- mechanical life: ≥ 500 cycles

- contact resistance: $\leq 3 \text{ m}\Omega$

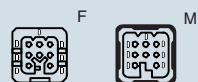
- for contact crimping instructions, please see the crimping tool section (10A contacts, CDF and CDM series) on pages 466, 470, 480, 482, 484, 486

- for maximum current load, see the following load curves inserts, for more information see page 493

dimensions in mm



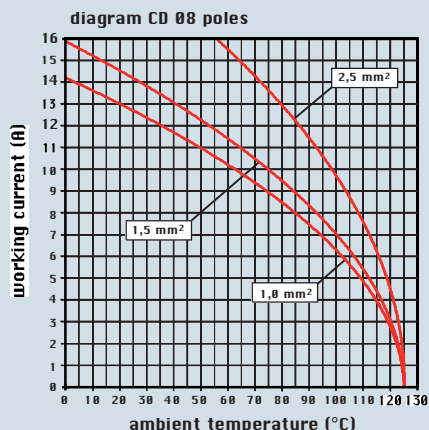
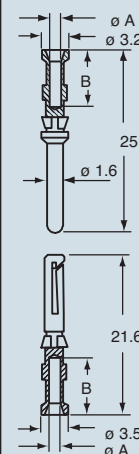
contacts side (front view)



coding pin with loss of a contact CR CP, page 431



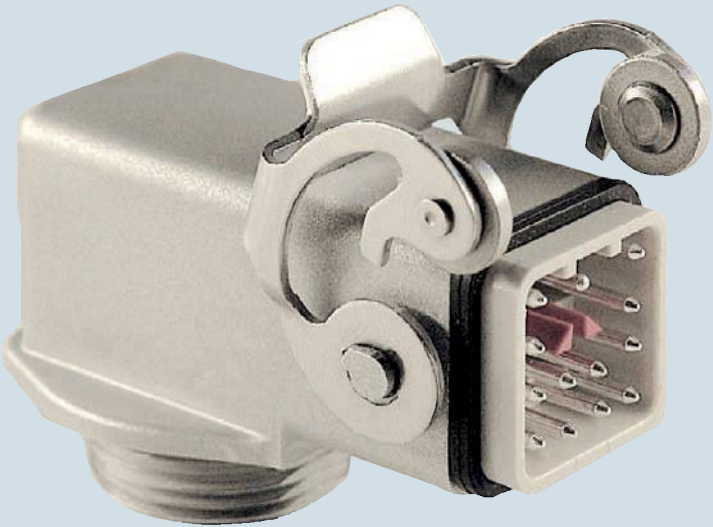
dimensions in mm



dimensions shown are not binding
and may be changed without notice

CDF and CDM contacts

conductor section mm ²	conductor slot ø A (mm)	conductors stripping length B (mm)
0.14-0.37	0.9	8
0.5	1.1	8
0.75	1.3	8
1.0	1.45	8
1.5	1.8	8
2.5	2.2	6



coding positions for CQ 12 connector

Key position (M insert side)	Key position (F insert side)	View (M insert side)	View (M insert side)	View (F insert side)	View (F insert side)
A	B	A	B	B	A
1	1	◀	◀	▶	▶
1	2	◀	▶	◀	▶
1	3	◀	▶	▶	▶
1	4	◀	▶	▶	▶
2	1	▶	◀	▶	◀
2	2	▶	▶	◀	◀
2	3	▶	▶	▶	◀
2	4	▶	▶	▶	◀
3	1	▶	◀	▶	▶
3	2	▶	▶	◀	▶
3	3	▶	▶	▶	▶
3	4	▶	▶	▶	▶
4	1	▶	◀	▶	▶
4	2	▶	▶	◀	▶
4	3	▶	▶	▶	▶
4	4	▶	▶	▶	▶

enclosures:

size "21.21"

page:

insulating type	201 - 202
metallic type	203 - 205
aggressive environments	325
EMC	343
IP68	372 - 373

inserts, crimp connections



10A crimp contacts silver and gold plated



description

part No.

part No.

part No.

without contacts (to be ordered separately)
female inserts for female contacts
male inserts for male contacts

CQF 12
CQM 12

10A female contacts

0.14-0.37 mm ²	AWG 26-22	identification No. 1
0.5 mm ²	AWG 20	identification No. 2
0.75 mm ²	AWG 18	identification No. ②
1 mm ²	AWG 18	identification No. 3
1.5 mm ²	AWG 16	identification No. 4
2.5 mm ²	AWG 14	identification No. 5

10A male contacts

0.14-0.37 mm ²	AWG 26-22	identification No. 1
0.5 mm ²	AWG 20	identification No. 2
0.75 mm ²	AWG 18	identification No. ②
1 mm ²	AWG 18	identification No. 3
1.5 mm ²	AWG 16	identification No. 4
2.5 mm ²	AWG 14	identification No. 5

CDFA 0.3
CDFA 0.5
CDFA 0.7
CDFA 1.0
CDFA 1.5
CDFA 2.5

silver plated

CDFD 0.3
CDFD 0.5
CDFD 0.7
CDFD 1.0
CDFD 1.5
CDFD 2.5

gold plated

CDMA 0.3
CDMA 0.5
CDMA 0.7
CDMA 1.0
CDMA 1.5
CDMA 2.5

CDMD 0.3
CDMD 0.5
CDMD 0.7
CDMD 1.0
CDMD 1.5
CDMD 2.5

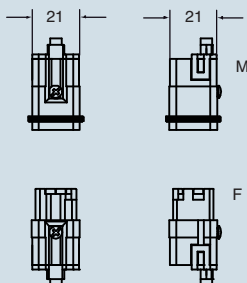
- characteristics according to EN 61984:

10A 400V 6kV 3

10A 400/690V 6kV 2

- cUL (UL for USA and Canada), CCC, GL, GOST certified
- rated voltage according to UL/CSA: 600V
- insulation resistance: $\geq 10 \text{ G}\Omega$
- ambient temperature limit: -40 °C ... +125 °C
- are made of self-extinguishing thermoplastic resin UL 94 V0
- mechanical life: ≥ 500 cycles
- contact resistance: $\leq 3 \text{ m}\Omega$
- the CQ 12 inserts are already supplied with a seal and a screw, which ensure IP66/IP67 protection rating
- for contact crimping instructions, please see the crimping tool section (10A contacts, CDF and CDM series) on pages 466, 470, 480, 482, 484, 486
- for maximum current load, see the following load curves inserts, for more information see page 494

dimensions in mm



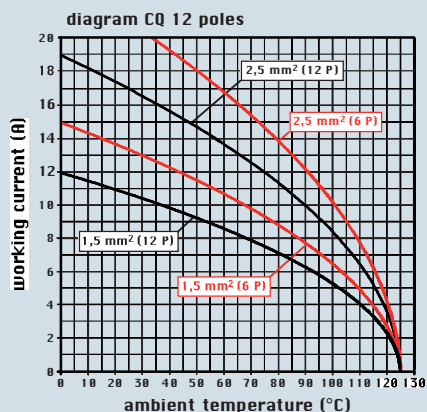
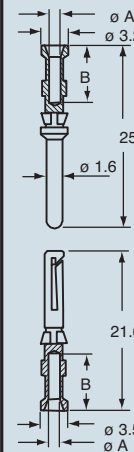
contacts side (front view)



- the CR Q12 coding pins (to be ordered separately), allow the user to create 16 different combinations, according to the diagram shown on page 431



dimensions in mm



dimensions shown are not binding
and may be changed without notice

CDF and CDM contacts

conductor section	conductor slot	conductors stripping length
mm ²	ø A (mm)	B (mm)
0.14-0.37	0.9	8
0.5	1.1	8
0.75	1.3	8
1.0	1.45	8
1.5	1.8	8
2.5	2.2	6

enclosures:

size "21.21"

page:

insulating type 201 - 202

metallic type 203 - 205

aggressive environments 325

EMC 343

IP68 372 - 373

- inserts and enclosures for applications with temperatures up to 180 °C, available on request
- can also be used partially fitted with 4 mm² section contacts
- for contact crimping instructions, please see the crimping tool section (16A contacts, CCF, CCM and CC...AN series) on pages 466, 470, 480, 482, 484, 486

inserts, crimp connections



16A crimp contacts normal and for advanced opening silver and gold plated



description

part No.

part No.

part No.

without contacts (to be ordered separately)

female inserts for female contacts

male inserts for male contacts

CQF 05
CQM 05

16A female contacts

0.14-0.37 mm ²	AWG 26-22	three grooves
0.5 mm ²	AWG 20	with no grooves
0.75 mm ²	AWG 18	one groove (back side)
1 mm ²	AWG 18	one groove
1.5 mm ²	AWG 16	two grooves
2.5 mm ²	AWG 14	three grooves
3 mm ²	AWG 12	one wide groove
4 mm ²	AWG 12	with no grooves

16A male contacts

0.14-0.37 mm ²	AWG 26-22	three grooves
0.5 mm ²	AWG 20	with no grooves
0.75 mm ²	AWG 18	one groove (back side)
1 mm ²	AWG 18	one groove
1.5 mm ²	AWG 16	two grooves
2.5 mm ²	AWG 14	three grooves
3 mm ²	AWG 12	one wide groove
4 mm ²	AWG 12	with no grooves

16A male crimp contacts for advanced opening

0.5 mm ²	AWG 20	with no grooves
0.75 mm ²	AWG 18	one groove (back side)
1 mm ²	AWG 18	one groove
1.5 mm ²	AWG 16	two grooves
2.5 mm ²	AWG 14	three grooves

CCFA 0.3
CCFA 0.5
CCFA 0.7
CCFA 1.0
CCFA 1.5
CCFA 2.5
CCFA 3.0
CCFA 4.0

silver plated

CCFD 0.3
CCFD 0.5
CCFD 0.7
CCFD 1.0
CCFD 1.5
CCFD 2.5
CCFD 3.0
CCFD 4.0

gold plated

CCMA 0.3
CCMA 0.5
CCMA 0.7
CCMA 1.0
CCMA 1.5
CCMA 2.5
CCMA 3.0
CCMA 4.0

CCMD 0.3
CCMD 0.5
CCMD 0.7
CCMD 1.0
CCMD 1.5
CCMD 2.5
CCMD 3.0
CCMD 4.0

CC 0.5 AN
CC 0.7 AN
CC 1.0 AN
CC 1.5 AN
CC 2.5 AN

- characteristics according to EN 61984:

16A 230/400V 4kV 3

16A 320/500V 4kV 2

- UL, CSA, CCC, GL, GOST certified

- rated voltage according to UL/CSA: 600V

- insulation resistance: ≥ 10 G Ω

- ambient temperature limit: -40 °C ... +125 °C

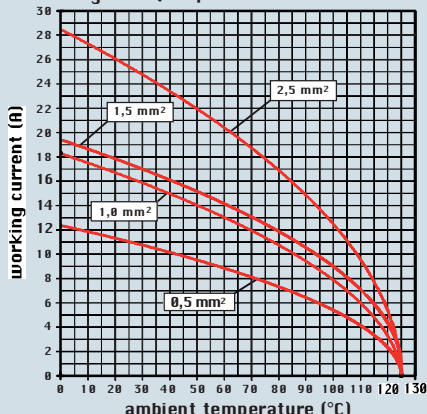
- are made of self-extinguishing thermoplastic resin UL 94 V0

- mechanical life: ≥ 500 cycles

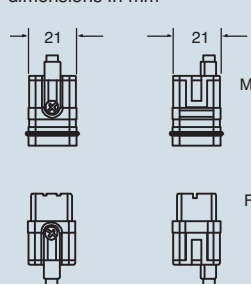
- contact resistance: ≤ 1 m Ω

- for maximum current load, see the following load curves inserts, for more information see page 494

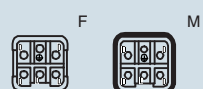
diagram CQ 05 poles



dimensions in mm



contacts side (front view)



coding pins CR CPQ, see page 431



dimensions in mm

CCF and CCM

CC...AN

CCF and CCM

CC...AN

CCF and CCM

CC...AN

CCF and CCM

CC...AN

CCF and CCM

CC...AN

CCF and CCM

CC...AN

CCF and CCM

CC...AN

CCF and CCM

CC...AN

CCF and CCM

CC...AN

CCF and CCM

CC...AN

CCF and CCM

CC...AN

CCF and CCM

CC...AN

CCF and CCM

CC...AN

CCF and CCM

CC...AN

CCF and CCM

CC...AN

CCF, CCM and CC...AN contacts

conductor section	conductor slot	conductors stripping length
mm ²	ø A (mm)	(mm)
0.14-0.37	0.9	7.5
0.5	1.1	7.5
0.75	1.3	7.5
1.0	1.45	7.5
1.5	1.8	7.5
2.5	2.2	7.5
3	2.55	7.5
4	2.85	7.5

enclosures:

size "32.13"

page:

insulating type 206 - 207

EMC 344 - 345

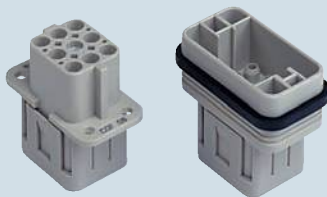
- can also be used partially fitted with 4 mm² section contacts

- for contact crimping instructions, please see the crimping tool section (16A contacts, CCF, CCM and CC...AN series) on pages 466, 470, 480, 482, 484, 486



compliant with ISO 23570-3 standard and with DESINA® specification

inserts, crimp connections



16A crimp contacts normal and for advanced opening silver and gold plated



description

part No.

part No.

part No.

without contacts (to be ordered separately)

female inserts for female contacts

male inserts for male contacts

CQF 08

CQM 08

16A female contacts

0.14-0.37 mm ²	AWG 26-22	three grooves
0.5 mm ²	AWG 20	with no grooves
0.75 mm ²	AWG 18	one groove (back side)
1 mm ²	AWG 18	one groove
1.5 mm ²	AWG 16	two grooves
2.5 mm ²	AWG 14	three grooves
3 mm ²	AWG 12	one wide groove
4 mm ²	AWG 12	with no grooves

16A male contacts

0.14-0.37 mm ²	AWG 26-22	three grooves
0.5 mm ²	AWG 20	with no grooves
0.75 mm ²	AWG 18	one groove (back side)
1 mm ²	AWG 18	one groove
1.5 mm ²	AWG 16	two grooves
2.5 mm ²	AWG 14	three grooves
3 mm ²	AWG 12	one wide groove
4 mm ²	AWG 12	with no grooves

16A male crimp contacts for advanced opening

0.5 mm ²	AWG 20	with no grooves
0.75 mm ²	AWG 18	one groove (back side)
1 mm ²	AWG 18	one groove
1.5 mm ²	AWG 16	two grooves
2.5 mm ²	AWG 14	three grooves

CCFA 0.3
CCFA 0.5
CCFA 0.7
CCFA 1.0
CCFA 1.5
CCFA 2.5
CCFA 3.0
CCFA 4.0

silver plated

CCFD 0.3
CCFD 0.5
CCFD 0.7
CCFD 1.0
CCFD 1.5
CCFD 2.5
CCFD 3.0
CCFD 4.0

gold plated

CCMA 0.3
CCMA 0.5
CCMA 0.7
CCMA 1.0
CCMA 1.5
CCMA 2.5
CCMA 3.0
CCMA 4.0

CCMD 0.3
CCMD 0.5
CCMD 0.7
CCMD 1.0
CCMD 1.5
CCMD 2.5
CCMD 3.0
CCMD 4.0

CC 0.5 AN
CC 0.7 AN
CC 1.0 AN
CC 1.5 AN
CC 2.5 AN

- characteristics according to EN 61984:

16A 500V 6kV 3

16A 400/690V 6kV 2

- cUL (UL for USA and Canada), CSA, GOST, CCC certified

- rated voltage according to UL/CSA: 600V

- insulation resistance: ≥ 10 G Ω

- ambient temperature limit: -40 °C ... +125 °C

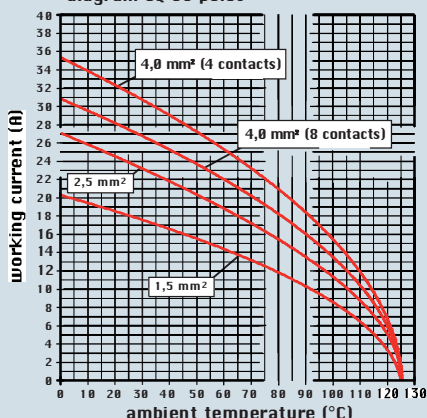
- are made of self-extinguishing thermoplastic resin UL 94 V0

- mechanical life: ≥ 500 cycles

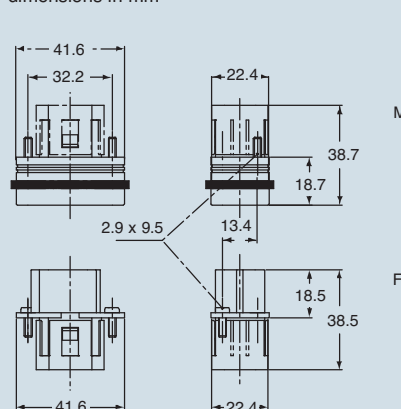
- contact resistance: ≤ 3 m Ω

- for maximum current load, see the following load curves inserts, for more information see page 494

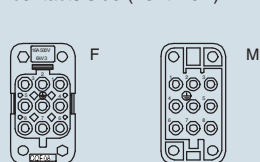
diagram CQ 08 poles



dimensions in mm

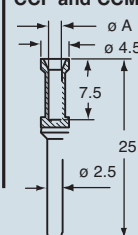


contacts side (front view)

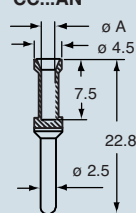


dimensions in mm

CCF and CCM



CC...AN



CCF, CCM and CC...AN contacts

conductor section	conductor slot	conductors stripping length
mm ²	ø A (mm)	(mm)
0.14-0.37	0.9	7.5
0.5	1.1	7.5
0.75	1.3	7.5
1.0	1.45	7.5
1.5	1.8	7.5
2.5	2.2	7.5
3	2.55	7.5
4	2.85	7.5

dimensions shown are not binding and may be changed without notice

enclosures:

size "21.21"

page:

insulating type 458 - 459

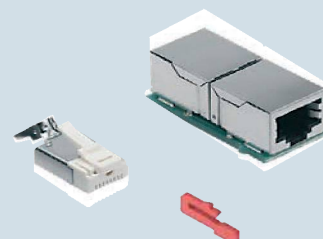
metallic type 460 - 461

IP68 372 - 373

- for crimping a male connector, see the crimp tool section page 491

adapter for RJ45 connectors

RJ45 connectors



description

part No.

part No.

without RJ45 connector (to be ordered separately)
- adapter for RJ45 female connector in fixed enclosures

CJ KF

- RJ45 female connector with 8 data contacts
- RJ45 female connector with 8 data contacts / 2 power contacts

CX 8 JF *
CX 8/2 JF *

without RJ45 connector (to be ordered separately)
- adapter for RJ45 male connector in portable enclosures

CJ KM

- RJ45 male connector with 4 data contacts
- RJ45 male connector with 4 data contacts / 2 power contacts
- RJ45 male connector with 6 data contacts / 2 power contacts
- RJ45 male connector with 8 data contacts
- RJ45 male connector with 4 data contacts, Class 5e

CX 4 JM
CX 4/2 JM
CX 6/2 JM
CX 8 JM
CX 4E JM

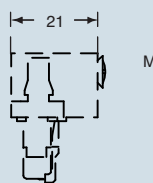
RJ45 connector features:

- RJ45 connector, Class 5 or Class 5e
- nominal current: 2.1A at 70 °C
- nominal voltage: 50VDC / 35VAC
- IDC terminal:
 - for data wires from 0.22 mm² to 0.24 mm² (AWG 24)
 - for power wires from 0.34 mm² to 0.38 mm² (AWG 22)
- temperature range: from -40 °C to +120 °C
- nickel plated brass screening
- insert coding pin: **CR KC**
- self-extinguishing properties: to UL 94V-0
- crimp pliers: **CJPZY**
- screened cables stripping tool: **CJST**

* 4 pole version on request, part No. **CX 4 JF** and **CX 4/2 JF** with "crossover" link

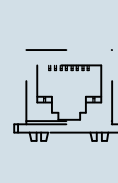
dimensions in mm

CJ KF, CJ KM

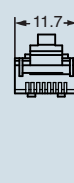
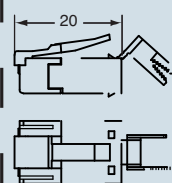


dimensions in mm

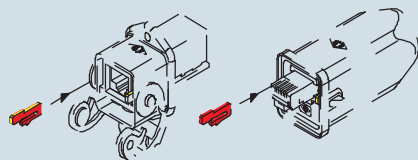
CX 4 JF, CX 4/2 JF, CX 8 JF, CX 8/2 JF



CX 4 JM, CX 4E JM, CX 4/2 JM, CX 6/2 JM, CX 8 JM

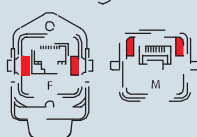
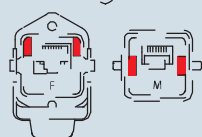


How to use CR KC coding pins



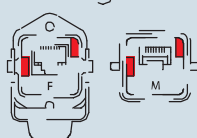
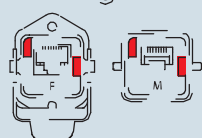
1)

2)

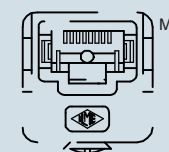
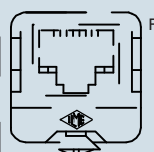


3)

4)



contacts side (front view)



dimensions shown are not binding
and may be changed without notice

To be able to use round shielded connectors series MIXO BUS (multiaxial, for balanced cables with multiple pairs) or coaxial connectors (for coaxial cables) even in compact enclosures size “21.21” **CKA/MKA** or **CGK/MGK**, it is necessary to purchase the new **adaptor insert CX 1/2 BD**.

This insert can be used to assemble MIXO coaxial connectors part no. **CX 01 BM/BF** for coaxial cables with a typical impedance of 75 Ω and **CX 01 BCM/BCF** for coaxial cables with a typical impedance of 50 Ω, or **MIXO BUS CX 04 BM/BF** multiaxial shielded connectors with 4 poles + shield and the new **CX 08 BM/BF** shielded connectors with 8 poles + shield, in addition to providing **seats for 2 additional optional contacts** series CD for the connection of a SELV (very low safety voltage) supply line.

The connector section of this adaptor has rated values compliant with standard EN 61984 and equivalent to **10A 50V 0.8kV**.

Adaptor insert **CX 1/2 BDM/BDF** is fitted with multiaxial and coaxial MIXO BUS shielded connectors and is designed to be used only with the models specified below of the following enclosures: **CKA/MKA** (IP66/IP67) or **CGK/MGK** (IP66/IP68) **with gasket**.

The cable shielding is electrically separated from the earthing connection of the metal enclosure.

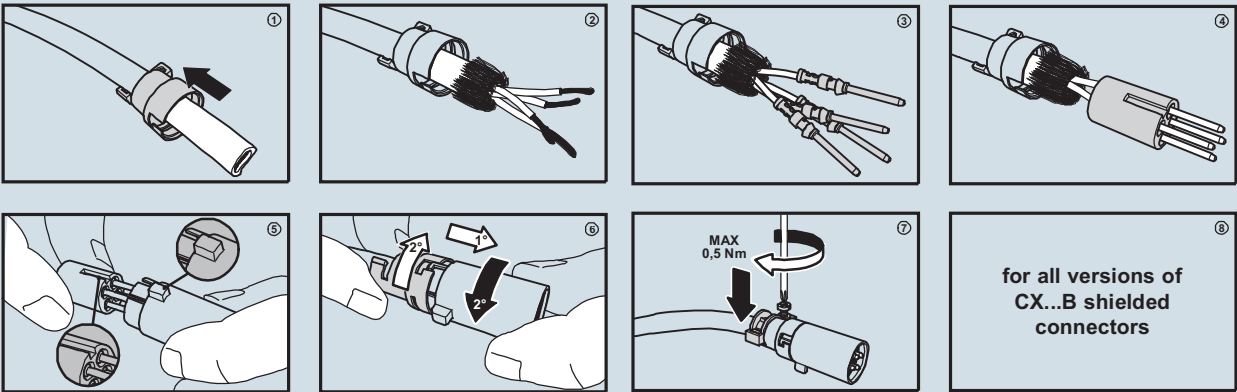
If used with MIXO BUS CX 04 BM/BF shielded connectors, the connector is able to support all field bus protocols with 4 conductors.

MIXO BUS multiaxial and coaxial connectors are compatible with shielded cables with a section ranging from 3 mm and 9.5 mm.

The operating temperature for connectors resulting from the use of CX 1/2 BD adaptor inserts is -40 °C / +70 °C.

Part No. of adaptor inserts		CX 1/2 BD
No. of seats/poles	seats for shielded connector ¹⁾	1
	seats for auxiliary contacts	2
rated current ²⁾	shielded connector	depending on type: 5A, 10A, 16A
	auxiliary contacts	10A
EN 61984 pollution degree 3	rated voltage	50V
	rated impulse withstand voltage	0.8kV
	pollution degree	3
UL 1977 / CSA C22.2 N°187.3	rated voltage (a.c./d.c.)	50V
contact resistance	shielded connector	depending on the type of contact used
	auxiliary contacts	≤ 3 mΩ
insulation resistance		≥ 10 GΩ
ambient temperature limit (°C)	min	-40
	max	+70
degree of protection	with enclosures (according to type)	IP66/IP67, IP66/IP68, IP69K
	without enclosures	IP20
conductor connections		crimp
conductor section	shielded connector (mm²/AWG)	depending on the type of contact used
	auxiliary contacts (mm²)	0.14÷2.5
	auxiliary contacts (AWG)	26÷14
conductors stripping lenght		depending of contact
mechanical endurance (rating cycles)		≥ 500
self-extinguishing capacity UL 94		V0

- 1) Depending on the selected shielded connector, which must be ordered separately, the number of poles + shield could be 1 (coaxial connectors), 4 (4-way multiaxial connector for 2 pairs) or 8 (8-way multiple connector, for example for 4 pairs).
- 2) It is generally necessary to refer to the loading curves of the inserts to determine the actual operating current limit for a specific ambient temperature. These curves are not required for MIXO BUS / coaxial shielded connectors, because these are signal connectors designed to be used by the transmission protocols to transmit currents in fractions of amperes. The current capacity specified is the maximum current traditionally assigned to contacts, not the one assigned to the shielded connector when in use.





enclosures:
size "21.21" page:

metallic type (CKAX I, CKAG/MKAG V) 460 - 461
IP68
(CGK I, CGK/MGK IAP, CGK/MGK V) 372 - 373

adaptor insert for shielded connectors



NEW

10A crimp contacts, silver or gold plated



description

part No.

part No.

part No.

adaptor insert with seats for 1 shielded connector
+ 2 aux contacts 10A
- female insert, 1 seat for BUS connector and 2 seats
for 10A female contacts (CDF)
- male insert, 1 seat for BUS connector and 2 seats
for 10A male contacts (CDM)

CX 1/2 BDF

CX 1/2 BDM

10A female crimp contacts
0.14-0.37 mm² AWG 26-22
0.5 mm² AWG 20
0.75 mm² AWG 18
1 mm² AWG 18
1.5 mm² AWG 16
2.5 mm² AWG 14

10A male crimp contacts
0.14-0.37 mm² AWG 26-22
0.5 mm² AWG 20
0.75 mm² AWG 18
1 mm² AWG 18
1.5 mm² AWG 16
2.5 mm² AWG 14

CDFA 0.3
CDFA 0.5
CDFA 0.7
CDFA 1.0
CDFA 1.5
CDFA 2.5

silver plated

CDFD 0.3
CDFD 0.5
CDFD 0.7
CDFD 1.0
CDFD 1.5
CDFD 2.5

gold plated

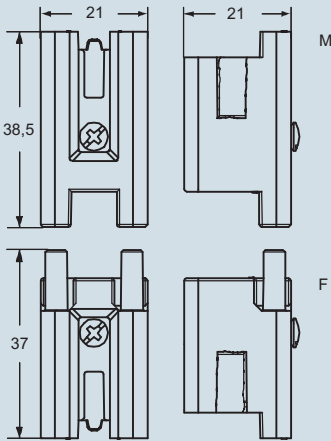
CDMA 0.3
CDMA 0.5
CDMA 0.7
CDMA 1.0
CDMA 1.5
CDMA 2.5

CDMD 0.3
CDMD 0.5
CDMD 0.7
CDMD 1.0
CDMD 1.5
CDMD 2.5

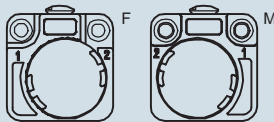
- characteristics according to EN 61984:
adaptor insert CX 1/2 BD (2 aux contacts)
10A 50V 0.8kV 3
- for contact crimping, see the crimp tool section (10A
contacts, CDF and CDM series) on pages 466, 470,
480, 482, 484, 486
- extraction tool for BUS/coax shielded connectors from
adaptor insert CX 1/2 BD part No. CX BES see
page 440
- contact resistance adaptor insert, 2 aux contacts:
≤ 3 mΩ
- adaptor insert fitted with fixing screw and gasket,
suitable for installation in enclosures (see pages 372,
373, 460, 461)
- adaptor insert designed to be used
with CX 01 BF/M, CX 04 BF/M; CX 08 BF/M and
CX01 BCF/M shielded connectors

dimensions in mm

CX 1/2 BDF, CX 1/2 BDM

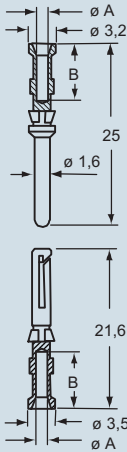


contacts side (front view)



dimensions in mm

CDF and CDM



CDF and CDM contacts

conductor section mm ²	conductor slot ø A (mm)	conductors stripping length B (mm)
0.14-0.37	0.9	8
0.5	1.1	8
0.75	1.3	8
1.0	1.45	8
1.5	1.8	8
2.5	2.2	6

dimensions shown are not binding
and may be changed without notice

adaptor inserts 1 or 4 poles + shield



- characteristics according to EN 61984:
shielded connector

10A 50V 0,8kV 3

- for contact crimping, see the crimp tool section (10A contacts, CDF and CDM series) on pages 466, 470, 480, 482, 484, 486

- extraction tool for BUS/coax shielded connectors from adaptor insert CX 1/2 BD part No. CX BES see page 440

- contact resistance

shielded connector CX 04 B: $\leq 3 \text{ m}\Omega$

coaxial connector CX 01 B: $\leq 3 \text{ m}\Omega$

- coaxial connector CX 01 B **cables with a typical impedance of 75 Ω**

- CX 04 B multiaxial connector for STP cables with 2 pairs and terminations compliant with EN 50173-1 Cat. 5 (100 MHz), compatible with 4-wire field bus protocols

shielded connectors



10A crimp contacts, silver or gold plated



description

part No.

part No.

part No.

shielded BUS multi axial connectors, 4 poles + shield

- female insert, 4 contact seats 10A (CDF) + shield

- male insert, 4 contact seats 10A (CDM) + shield

CX 04 BF
CX 04 BM

shielded BUS coaxial connectors, 1 pole + shield

- female insert, 1 contact seat 10A (CDF) + shield

- male insert, 1 contact seat 10A (CDM) + shield

CX 01 BF
CX 01 BM

10A female crimp contacts

0.14-0.37 mm² AWG 26-22

0.5 mm² AWG 20

0.75 mm² AWG 18

1 mm² AWG 18

1.5 mm² AWG 16

2.5 mm² AWG 14

10A male crimp contacts

0.14-0.37 mm² AWG 26-22

0.5 mm² AWG 20

0.75 mm² AWG 18

1 mm² AWG 18

1.5 mm² AWG 16

2.5 mm² AWG 14

CDFA 0.3
CDFA 0.5
CDFA 0.7
CDFA 1.0
CDFA 1.5
CDFA 2.5

silver plated

CDFD 0.3
CDFD 0.5
CDFD 0.7
CDFD 1.0
CDFD 1.5
CDFD 2.5

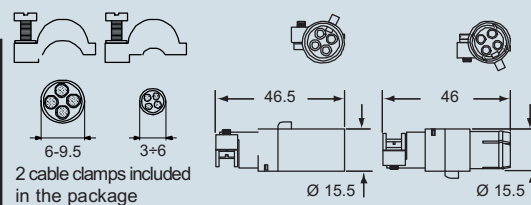
gold plated

CDMA 0.3
CDMA 0.5
CDMA 0.7
CDMA 1.0
CDMA 1.5
CDMA 2.5

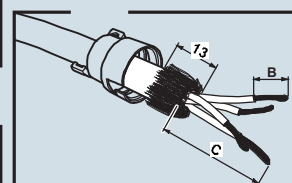
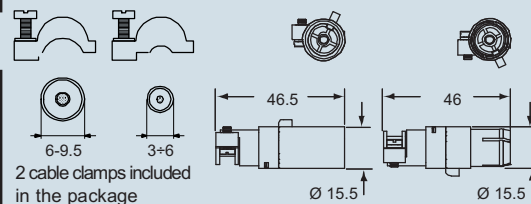
CDMD 0.3
CDMD 0.5
CDMD 0.7
CDMD 1.0
CDMD 1.5
CDMD 2.5

dimensions in mm

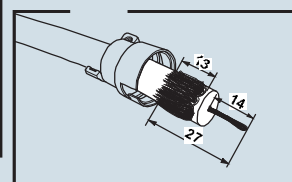
CX 04 BF, CX 04 BM



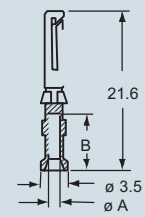
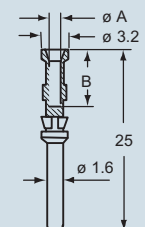
CX 01 BF, CX 01 BM



cable clamp	C (mm)
3+6	20
6+9.5	25



CDF and CDM



CDF and CDM contacts

conductor section	conductor slot	conductors stripping length
mm ²	ø A (mm)	B (mm)
0.14-0.37	0.9	8
0.5	1.1	8
0.75	1.3	8
1.0	1.45	8
1.5	1.8	8
2.5	2.2	6

dimensions shown are not binding
and may be changed without notice

adaptor inserts 1 seat for connector 8 poles + shield 5A - 50V



- characteristics according to EN 61984:
CX 08 B shielded connector
5A 50V 0,8kV 3
- contact resistance
CX 08 B shielded connector: $\leq 4\text{ m}\Omega$
- max. $\varnothing$ of insulation for contacts CI series (CX 08 B shielded connector): 2,4 mm
- for crimp 5A contacts CI series using: CIPZ D crimping tool + CITP D turret head
- insertion / removal tool contacts CI series: part No CIES

shielded connectors



5A crimp contacts, gold plated



description

part No.

part No.

- shielded BUS multi axial connectors, 8 poles + shield
- female insert, 8 contact seats 5A (CIF) + shield
- male insert, 8 contact seats 5A (CIM) + shield

- 5A female crimp contacts
- 0.08-0.21 mm² AWG 24-28
- 0.13-0.33 mm² AWG 22-26
- 0.33-0.52 mm² AWG 20-22

- 5A male crimp contacts
- 0.08-0.21 mm² AWG 24-28
- 0.13-0.33 mm² AWG 22-26
- 0.33-0.52 mm² AWG 20-22

CX 08 BF
CX 08 BM

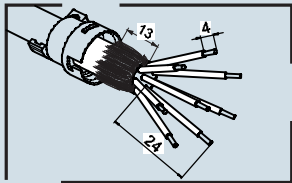
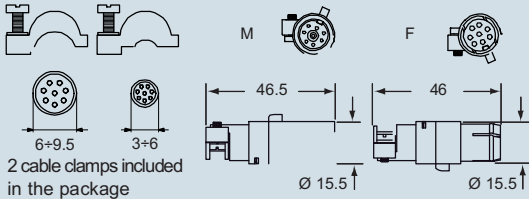
CIFD 0.2
CIFD 0.3
CIFD 0.5

CIMD 0.2
CIMD 0.3
CIMD 0.5

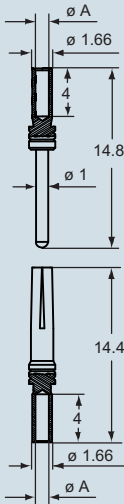
gold plated

dimensions in mm

CX 08 BF, CX 08 BM



CIF and CIM



CIF, CIM contacts

conductor section mm ²	conductor slot $\varnothing A$ (mm)	conductors stripping length (mm)
0.08-0.21	0.64	4
0.13-0.33	0.90	4
0.33-0.52	1.12	4

dimensions shown are not binding
and may be changed without notice



- characteristics according to EN 61984:
CX 01 BC shielded connector
16A 50V 0,8kV 3
- for information on the crimping of contacts series CC (CX 01 BC shielded connector) and on the insertion / removal tools, see the section related to crimping tools (16A contacts, CCF and CCM series) on pages 466, 470, 480, 482, 484, 486
- contact resistance
CX 01 BC shielded connector: $\leq 1\text{ m}\Omega$
- CX 01 BC shielded connector for cable with a typical impedance of 50 Ω

shielded connectors



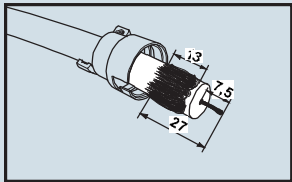
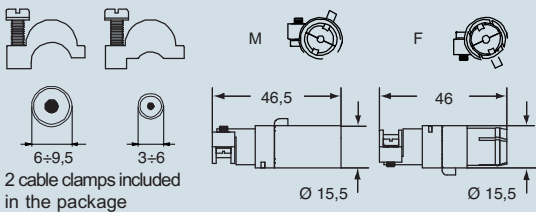
16A crimp contacts, silver or gold plated



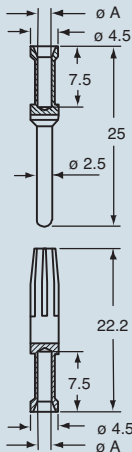
description	part No.	part No.	part No.
shielded BUS coaxial connectors, 1 pole + shield - female insert, 1 contact seat 16A (CCF) + shield - male insert, 1 contact seat 16A (CCM) + shield	CX 01 BCF CX 01 BCM		
16A female contacts 0.14-0.37 mm ² AWG 26-22 three grooves 0.5 mm ² AWG 20 with no grooves 0.75 mm ² AWG 18 one groove (back side) 1 mm ² AWG 18 one groove 1.5 mm ² AWG 16 two grooves 2.5 mm ² AWG 14 three grooves 3 mm ² AWG 12 one wide groove 4 mm ² AWG 12 with no grooves		CCFA 0.3 CCFA 0.5 CCFA 0.7 CCFA 1.0 CCFA 1.5 CCFA 2.5 CCFA 3.0 CCFA 4.0	CCFD 0.3 CCFD 0.5 CCFD 0.7 CCFD 1.0 CCFD 1.5 CCFD 2.5 CCFD 3.0 CCFD 4.0
16A male contacts 0.14-0.37 mm ² AWG 26-22 three grooves 0.5 mm ² AWG 20 with no grooves 0.75 mm ² AWG 18 one groove (back side) 1 mm ² AWG 18 one groove 1.5 mm ² AWG 16 two grooves 2.5 mm ² AWG 14 three grooves 3 mm ² AWG 12 one wide groove 4 mm ² AWG 12 with no grooves		CCMA 0.3 CCMA 0.5 CCMA 0.7 CCMA 1.0 CCMA 1.5 CCMA 2.5 CCMA 3.0 CCMA 4.0	CCMD 0.3 CCMD 0.5 CCMD 0.7 CCMD 1.0 CCMD 1.5 CCMD 2.5 CCMD 3.0 CCMD 4.0

dimensions in mm

CX 01 BCF, CX 01 BCM



CCF and CCM



CCF and CCM contacts

conductor section	conductor slot	conductors stripping length
mm ²	ø A (mm)	(mm)
0.14-0.37	0.9	7.5
0.5	1.1	7.5
0.75	1.3	7.5
1.0	1.45	7.5
1.5	1.8	7.5
2.5	2.2	7.5
3	2.55	7.5
4	2.85	7.5

dimensions shown are not binding
and may be changed without notice

Test performed in accordance with IEC/EN 60512-25-2 (2002), 4.1.3.2 (coaxial cable only) and 4.2.2.2 (coaxial cable and connector)

