COB TCQ + **COB TSFS**
(**COB...CMS**, alternative)

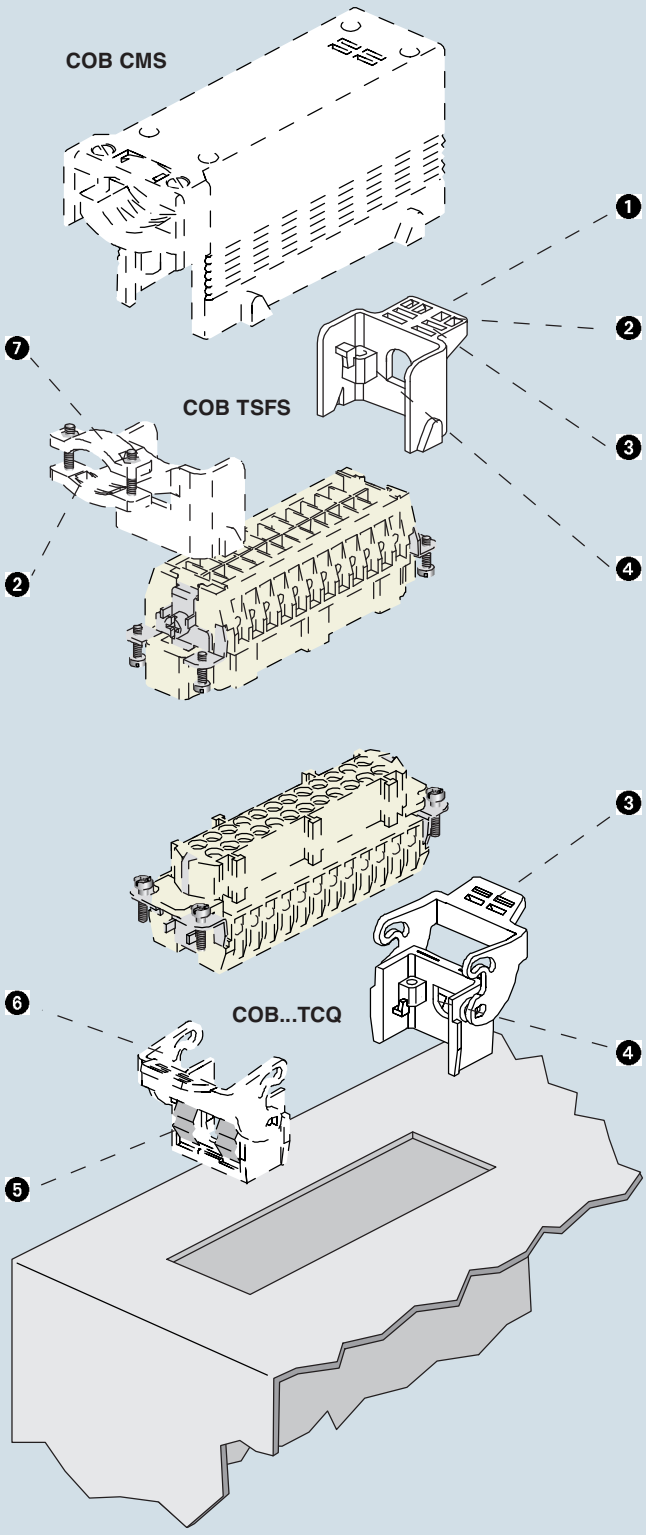


Figure 1:
- snap fastening in window*, panels or control panels

Use

The COB system makes it possible to use multipole connectors within electric panels without the traditional metallic enclosures as protection is assured by the electric panel itself or other container.
(**N.B.**: the connectors must not be handled live).

The COB system may be assembled in the three following ways:

- on panels with window snap fastening device (**Figure 1**)
- on DIN EN 60715 rails, both lengthways and crossways to the support (**Figure 2**)
- on fixed panels using screws (**Figure 2**)

The COB system offers the following advantages:
- reduction in cost and space with respect to metallic enclosures and traditional terminal boards
- possibility of rewiring at the connector bench with connected devices
- easy wiring inspection and tests with coupled connectors, thanks to rear access to the inserts via the turnover device
- fast mounting in panels thanks to the snap fastening device on the DIN EN 60715 rails
- sturdy support structure, specific to the size of each insert and does not require any preparation
- broad passage for housing of conductor cables
- mobile parts prearranged for the clamping of bundles of conductors of multipolar cables to prevent contact with the connector contacts.

The COB system satisfies the most varied installation needs thanks to the interchangeability of the connector inserts. The inserts can be installed as per the following table:

supports for connector inserts

types fixed	COB TCQ			
	COB 06 BC	**COB 10 BC**	**COB 16 BC**	**COB 24 BC**
types mobile	**COB TSF** and **COB TSFS**			
	COB 06 CMS	**COB 10 CMS**	**COB 16 CMS**	**COB 24 CMS**

insert centre distance:

mm				
	44 x 27	57 x 27	49.5 x 16* 66 x 16* 77.5 x 27	104 x 27

insert series and polarity + ⊕

CD			15*, 25*, 40	64
CDD	24	42	38*, 72	108
CDA			10*, 16*	
CDC			10*, 16*	
JCSE	6	10	16	24
CCE	6	10	16	24
CQE	10	18	32	46
JCNE	6	10	16	24
CNE	6	10	16	24
CSH	6	10	16	24
CSE	6	10	16	24
CMCE		3 + 2	6 + 2	10 + 2 16 + 2
CME		3 + 2	6 + 2	10 + 2 16 + 2
CMS		3 + 2	6 + 2	10 + 2
CP			6	
CX			4/0, 4/2 6/36 12/2	4/8
MIXO	2 modules	3 modules	4 modules	6 modules

*) mounting via adaptor plates described on page 412

In addition, the COB..BC supports may house the ILME CR…AD1 and CR…AD2 series plates for the D-SUB inserts (microconnectors).

Characteristics

❶ **COB, TSF** or **COB TSFS** insert support blocks (with cable clamp) for mobile mounting, in self-extinguishing thermoplastic material.

❷ passage for cable support bands (from 2.2 to 4.8 mm).

❸ locations for insertion of identification tags (size 9 x 20 mm).

❹ threaded metallic inserts for fixing the inserts with normal screws and possibility of coded connection with the use of specific pins (ILME part: CR 20, CRM, CRF, CR 20 CX, CRM CX and CRF CX) when identical connectors are used.

❺ **COB TCQ** insert carrier block for window* mounting in self-extinguishing thermoplastic material, with spring snap fastening.

❻ locking device with levers in self-extinguishing thermoplastic material for insert coupling.

❼ sturdy cable clamp for clamping multipolar cables with a diameter of up to 25 mm or bundles of unipolar conductors.

❽ **COB...CMS** enclosure for mobile mounting, in self-extinguishing thermoplastic material, IP20 protection rating.

❾ free passage for mounting wired insert with conductor cables.

❿ mobile blocks (in COB…BC kit) in self-extinguishing thermoplastic material, with quick release device for insert turnover, wiring operations, verifications and maintenance.

⓫ **COB...BC** panel support for bulkhead mounting in self-extinguishing thermoplastic material, sturdy block support structure, with broad passage for housing of conductor cables.

⓬ holes for fixed fastening with screws without DIN EN 60715 rails.

⓭ snap fastening on DIN EN 60715 rails, both lengthways and crossways to the support Figure.

⓮ turnover pins that can be released and allow the use of prewired inserts.

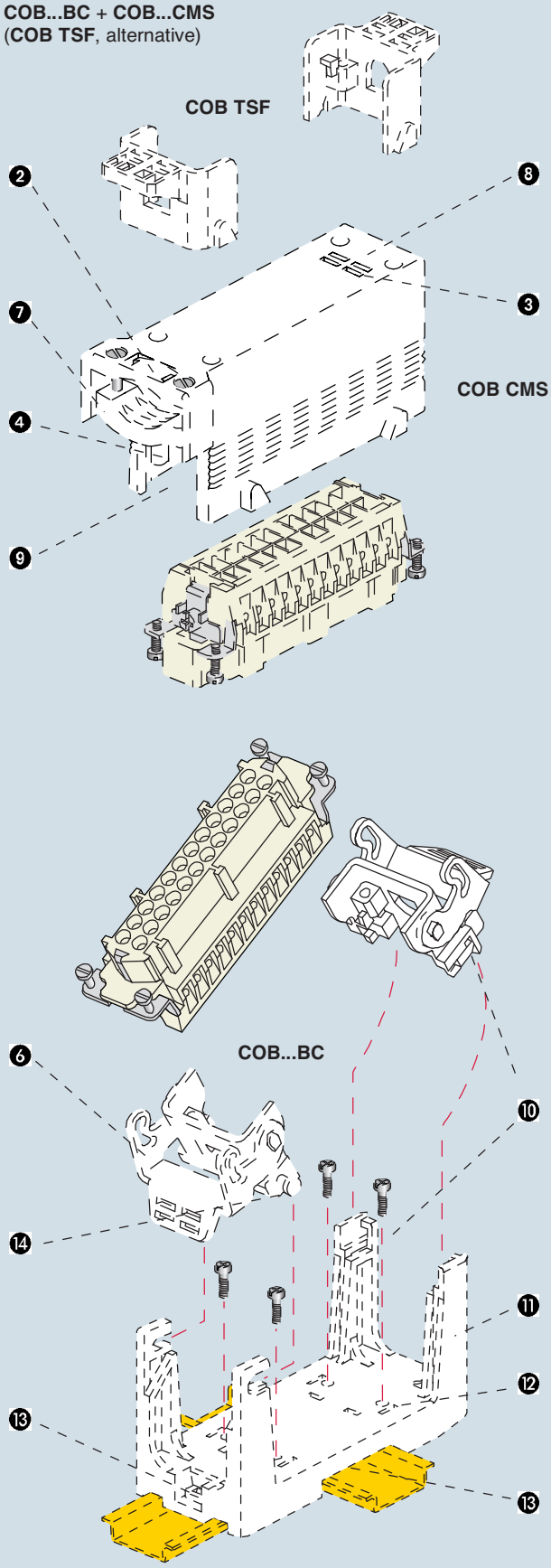


Figure 2:
- snap fastening on DIN EN 60715 rails both lengthways and crossways to the support
- installation in panels or control panels, with fixed fastening with screws

COB panel supports for multipole connectors

inserts: page

insert centre distance:
44 x 27 mm, 57 x 27 mm
77.5 x 27 mm, 104 x 27 mm

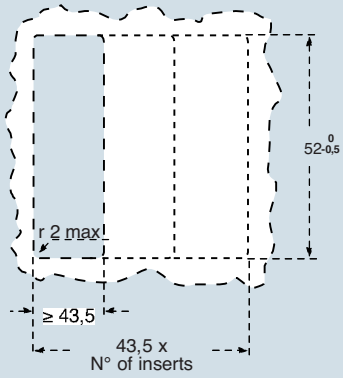
connector carrier for faceplate mounting in window*, snap fastening

connector carrier baseplate for mounting on DIN EN 60715 rail or fixed mounting using screws

description	part no.	part no.
kit with 2 elements, for coupling of inserts with screw fixing centre distance (short side = 27 mm)	**COB TCQ**	
kit comprising frame and mobile blocks, for insert coupling: - with screw fixing centre distance of 44 x 27 mm - with screw fixing centre distance of 57 x 27 mm - with screw fixing centre distance of 77.5 x 27 mm - with screw fixing centre distance of 104 x 27 mm		**COB 06 BC** **COB 10 BC** **COB 16 BC** **COB 24 BC**

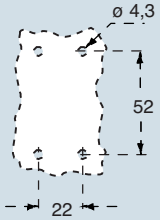
panel cut-out in mm

COB TCQ
window size on plate thickness 1.3÷3 mm



for insert coupling:	X 0 -0,5
with centre distance 44 x 27 mm	65
with centre distance 57 x 27 mm	78
with centre distance 77.5 x 27 mm	98
with centre distance 104 x 27 mm	125

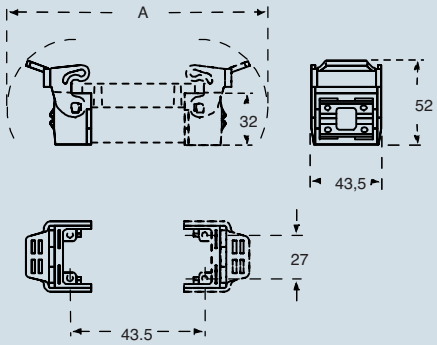
COB...BC



It is the responsibility of the installer to verify the continuity of the PE protective earth circuit ⏚ between the two halves of the connector.

dimensions shown are not binding
and may be changed without notice

dimensions in mm

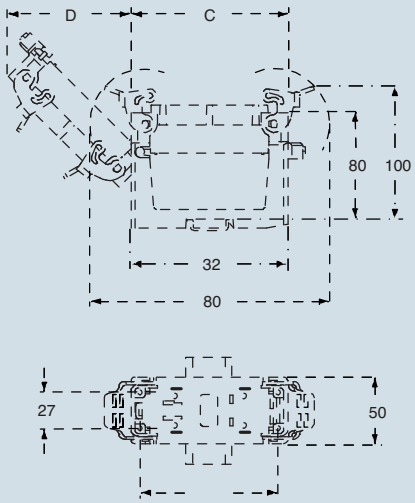


COB TCQ

for inserts	A	B
with centre distance 44 x 27 mm	120	44
with centre distance 57 x 27 mm	133	57
with centre distance 77.5 x 27 mm	153.5	77.5
with centre distance 104 x 27 mm	180	104

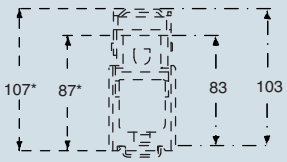
dimensions in mm

overall dimensions with longitudinal DIN rails



part	A	B	C	D	E
COB 06 BC	120	91.5	58	50	44
COB 10 BC	133	91.5	71	59.5	57
COB 16 BC	153.5	91.5	91.5	74	77.5
COB 24 BC	180	118	118	93	104

overall dimensions without DIN rails (values with “asterisk”) overall dimensions with longitudinal DIN rails



COB panel supports for multipole connectors

insert centre distance:
44 x 27 mm, 57 x 27 mm
77.5 x 27 mm, 104 x 27 mm

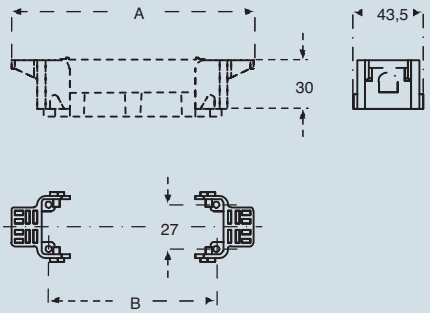
insert carrier blocks for mobile mounting

insert carrier insulated enclosures for mobile mounting

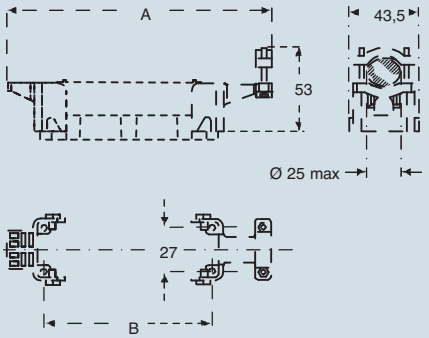
description	part no.	part no.
kit with 2 elements, for coupling of inserts with screw fixing centre distance (short side = 27 mm) - with handle for cable support bands - with handle for cable support or cable clamp bands	**COB TSF** **COB TSFS**	
side entry, with cable clamp for insert coupling: - with screw fixing centre distance of 44 x 27 mm - with screw fixing centre distance of 57 x 27 mm - with screw fixing centre distance of 77.5 x 27 mm - with screw fixing centre distance of 104 x 27 mm		**COB 06 CMS** **COB 10 CMS** **COB 16 CMS** **COB 24 CMS**

dimensions in mm

COB TSF

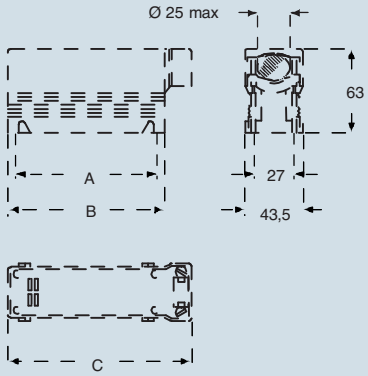


COB TSFS



for inserts	A	A**	B
with centre distance of 44 x 27 mm	90	104	44
with centre distance of 57 x 27 mm	103	117	57
with centre distance of 77,5 x 27 mm	123,5	137,5	77,5
with centre distance of 104 x 27 mm	150	164	104

dimensions in mm



part	A	B	C
COB 06 CMS	44	58	74
COB 10 CMS	57	71	87
COB 16 CMS	77,5	91,5	107,5
COB 24 CMS	104	118	134

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COB panel supports for multipole connectors

inserts: page

CD ..... 15, 25 poles + ⏚ 47 and 48
CDD ..... 38 poles + ⏚ 60
CDA ..... 10, 16 poles + ⏚ 72÷74
CDC ..... 10, 16 poles + ⏚ 73÷75
MIXO ..... 1 module 156÷195

insert centre distance:
49,5 x 16 mm
66 x 16 mm

Adaptor plates for insert mounting

levers for coupling with metallic enclosures

description	part no.	part no.
mounting on COB series articles (see below) for 1 insert with centre distance of 49.5 x 16 mm	**CR 15/16**	
mounting on COB series articles (see below) for 1 insert with centre distance of 66 x 16 mm	**CR 25/16**	
kit with 2 elements, to be mounted instead of the standard levers to be coupled with: COB TCQ and COB...BC [1]		**COB L**

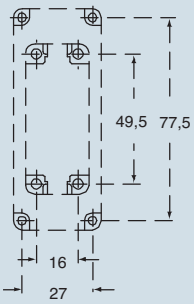
Adaptor plates

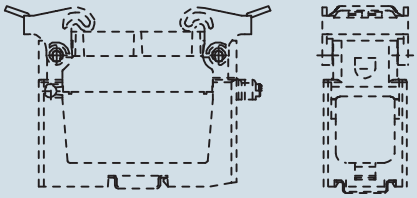
- They allow the inserting of inserts of "49.16" and "66.16" on the following COB series articles: COB TCQ, COB 16 BC, COB TSF, COB TSFS, COB 16 CMS

[1] They allow the mounting of aluminium hoods with 4 pegs, size 55.27, 77.27 and 104.27

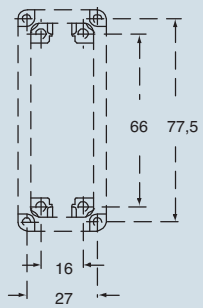
dimensions in mm

CR 15/16





CR 25/16



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