

COB series Panel supports for multipole connectors

The **COB** system of panel supports 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.

 $\ensuremath{\textbf{N.B.}}$: connectors must not be connected and disconnected under load or when live.

The **COB** system is approved by **UL** as support for multipole connectors (UL ECBT2 and ECBT8 file E115072), as well as by **DNV-GL** and **Bureau Veritas** maritime applications on board ships.

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 $(\mbox{Figure 2}).$
- On fixed panels using screws (Figure 2).
- The COB system offers the following advantages:
- Reduction in cost and space with respect to metallic enclosures plus traditional terminal blocks enabling "modular" wiring inside panels, very handy in case of maintenance: fast replacement of devices and entire sections leading to shorter downtime.
- Possibility of pre-wiring and testing of the connectors at bench, fastening the commissioning of the installation on site.
- Easy wiring inspection and tests with coupled connectors, thanks to rear access to the inserts by the overturning (connector hinged and locked on the base support).
- 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, it does not require any preparation.
- Broad passage for housing of conductor cables.

Supports for connector inserts

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

Insert centre distance

MIXO	2 modules	3 module:	s 4 modules	6 module
•			6/36, 12/2	6/6
CX			4/0, 4/2	4/8
CP		572	6	10 + 2
CMSH		3 + 2	6 + 2	10 + 2
CME		3 + 2	6 + 2	10 + 2 16 + 2
CMCE		3 + ²	6 + 2	10 + 2 16 + 2
CSH, CSE	6	10	16	24
CNE	6	10	16	24
CQEE			40	64
CQE	10	18	32	46
CCE	6	10	16	24
CDSH, CDS	9	18	27	42
CDC			10 *, 16 *	
CDA, CSAH			10 *, 16 *	
CDD	24	42	38 *, 72	108
CD			15 *, 25 *, 40	64
Insert series a	nd polarity + 🕀			
	44 x 27	57 x 27	77.5 x 27	104 x 27
			66 x 16 *	
mm			49.5 x 16 *	

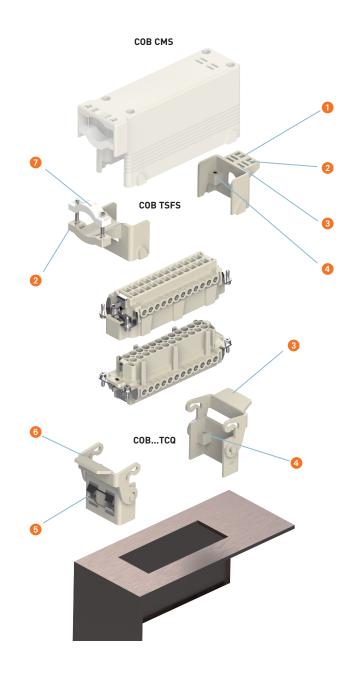
 Mobile parts prearranged for the clamping of bundles of conductors of multicore cables, to prevent contact with the connector contacts.

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 table here under.

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

Figure 1: COB TCQ + COB TSFS (COB...CMS, alternative)

 Snap fastening in window (mounting via adaptor plates described on page 654), panels or control panels.



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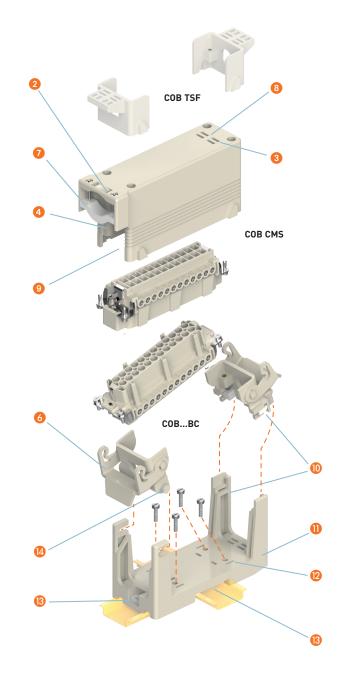


Product details

- COB, TSF or COB TSFS insert support blocks (with cable clamp) for mobile mounting, in self-extinguishing thermoplastic material.
- 2 Passage for cable support bands (from 2,2 to 4,8 mm).
- 3 Locations for insertion of identification tags (size 9 x 20 mm).
- O Threaded metallic inserts for screws to fix the connectors 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.
- 60 COB TCQ insert carrier block for window mounting in self-extinguishing thermoplastic material, with spring snap fastening.
- 6 Locking device with levers in self-extinguishing thermoplastic material for insert coupling.
- Sturdy cable clamp for clamping multipolar cables with a diameter of up to 25 mm or bundles of unipolar conductors.
- COB...CMS enclosure for mobile mounting, in self-extinguishing thermoplastic material, IP20 degree of protection.
- 9 Free passage for mounting wired insert with conductor cables.
- Mobile blocks (in COB...BC kit) in self-extinguishing thermoplastic material, with quick release device for insert turnover, wiring operations, verifications and maintenance
- COB...BC panel support for bulkhead mounting in self-extinguishing thermoplastic material, sturdy block support structure, with broad passage for housing of conductor cables.
- 10 Holes for fixed fastening with screws without DIN EN 60715 rails.
- Snap fastening on DIN EN 60715 rails, both lengthways and crossways to the support.
- Rollover pins that can be released and allow the use of pre-wired inserts.

Figure 2: COB...BC + COB...CMS (COB TSF, alternative)

- 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.



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inserts	page:
CD	40, 64 poles +
CDD	24, 42, 72, 108 poles + 🕀 76 - 81
CDS	9, 18, 27, 42 poles + 🖶 🛛 -
CDSH	9, 18, 27, 42 poles + 🖶 86 - 89
CDSH NC	6 poles + 🖶 95
CNE	6, 10, 16, 24 poles + 110 - 113
CSE	6, 10, 16, 24 poles + 🖶 🛛 -
CSH	6, 10, 16, 24 poles + 110 - 113
CSH S	6, 10, 16, 24 poles + 🕀 122 - 125
CCE	6, 10, 16, 24 poles + 🕀 130 - 133
CME	3+2, 6+2, 10+2 (aux) poles + 136 - 140
CMSH	3+2, 6+2, 10+2 (aux) poles + 🕀 136 - 140
CMCE	3+2, 6+2, 10+2 (aux) poles + 🕀 137 - 141
CSS	6, 10, 16, 24 poles + 🕀 148 - 151
CQE	10, 18, 32, 46 poles + 🕀 168 - 171
CQEE	40, 64 poles + 🖶 176 - 177
СР	6 poles + 🖶 178
СХ	8/24, 6/36, 12/2 poles + 🖶 194 - 199
СХ	4/0, 4/2, 4/8, 6/6 poles + 🖶 200 - 206
MIXO	2, 3, 4, 6 modules 232 - 287
description	

kit with 2 elements, for coupling of inserts

with screw fixing centre distance (short side = 27 mm) 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 It is the responsibility of the installer to verify the

continuity of the PE protective earth circuit

between the two halves of the connector.

For inserts size "44.27", "57.27", "77.27", "104.27"

connector carrier for faceplate mounting in window, snap fastening



32

пп

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



part No.

COB TCQ

COB TCQ

00

сов тсо

for inserts

with centre distance 44 x 27 mm

with centre distance 57 x 27 mm

with centre distance 77.5 x 27 mm

with centre distance 104 x 27 mm

window size on plate thickness 1,3-3 mm

panel cut-out COB TCQ

2 max

≥ 43,5

for insert coupling:

part No.

COB 06 BC COB 10 BC COB 16 BC COB 24 BC

COB BC

52

в

44

57

77,5

104

43.5

Α

120

133

180

0 X -0,5

X ⁰-0,5

65

78

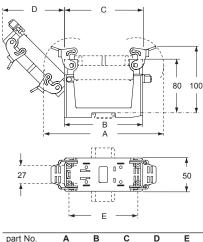
98

125

153,5

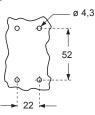
27

overall dimensions with longitudinal DIN rails

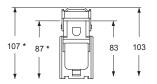


part No.	Α	в	С	D	E
COB 06 BC	120	91,5	58	50	44
COB 10 BC	133	91,5	71	59,5	57
COB 16 BC	153,5	91,5	91,5	74	77,5
COB 24 BC	180	118	118	93	104

panel cut-out COB BC



overall dimensions without DIN rails (values with "asterisk") overall dimensions with longitudinal DIN rails





Optional

PE



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43,5 x

N° of inserts

with centre distance 44 x 27 mm

with centre distance 57 x 27 mm

with centre distance 77,5 x 27 mm

with centre distance 104 x 27 mm



$\begin{array}{ccccc} CD & 40, 64 \ poles + 70 \ and \ 72 \\ CDD & 24, 42, 72, 108 \ poles + 76 - 81 \\ CDS & 9, 18, 27, 42 \ poles + 76 - 81 \\ CDS & 9, 18, 27, 42 \ poles + 76 - 81 \\ CDSH & 9, 18, 27, 42 \ poles + 76 - 81 \\ CDSH & 9, 18, 27, 42 \ poles + 9 \\ CDSH & 9, 18, 27, 42 \ poles + 9 \\ CDSH & 0, 16, 24 \ poles + 9 \\ CDSH & 6, 10, 16, 24 \ poles + 110 - 113 \\ CSE & 6, 10, 16, 24 \ poles + 110 - 113 \\ CSH & 6, 10, 16, 24 \ poles + 110 - 113 \\ CSH & 6, 10, 16, 24 \ poles + 130 - 133 \\ CME & 3+2, 6+2, 10+2 \ (aux) \ poles + 136 - 140 \\ CMSE & 3+2, 6+2, 10+2 \ (aux) \ poles + 136 - 140 \\ CMCE & 3+2, 6+2, 10+2 \ (aux) \ poles + 136 - 140 \\ CMCE & 3+2, 6+2, 10+2 \ (aux) \ poles + 136 - 140 \\ CQE & 0, 18, 32, 46 \ poles + 177 - 141 \\ CSS & 6, 10, 16, 24 \ poles + 176 - 177 \\ CP & 6 \ poles + 178 \\ CX & 8/24, 6/36, 12/2 \ poles + 194 - 199 \\ CX & 4/0, 4/2, 4/8, 6/6 \ poles + 194 - 199 \\ CX & 4/0, 4/2, 4/8, 6/6 \ poles + 200 - 206 \\ MIXO & 2, 3, 4, 6 \ modules \end{array}$	inserts	page:
$\begin{array}{llllllllllllllllllllllllllllllllllll$	CD CDS CDSH CDSH NC CDSH NC CSE CSH CSH S CCE CME	$\begin{array}{c} 40,64\text{poles} + {lllllllllllllllllllllllllllllllllll$
	CSS CQE CQEE CP CX CX	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

For inserts size "44.27", "57.27", "77.27", "104.27"

insert carrier blocks

part No.

COB TSF

COB TSF

COB TSFS

Α

COB TSFS



insert carrier insulated enclosures for mobile mounting



description

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

side entry, with cable clamp

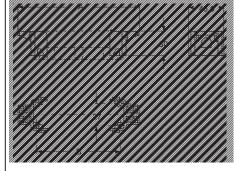
for insert coupling:

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

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

Optional ΡĒ earth jumpers (page 655)

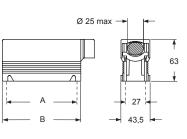




COB 06 CMS COB 10 CMS COB 16 CMS COB 24 CMS

COB CMS

part No.

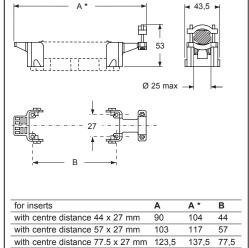




part No.	Α	В	С
COB 06 CMS	44	58	74
COB 10 CMS	57	71	87
COB 16 CMS	77,5	91,5	107,5
COB 24 CMS	104	118	134
-			

B	
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150

164

104

with centre distance 104 x 27 mm



For	inserts	size	"49.16",	"66.16"
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inserts page: CD 15, 25 poles + ⊕ 68 - 69 CDD 38 poles + ⊕ 77 CSAH 10, 16 poles + ⊕ 99 - 101 CDA 10, 16 poles + ⊕ 98 - 100 CDC 10, 16 poles + ⊕ 104 - 105 MIXO 1 module 232 - 287	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 COBBC ¹⁾		COB L
¹⁾ They allow the mounting of aluminium hoods with 4 pegs, size 55.27, 77.27 and 104.27	CR 15/16	

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

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

