

CH bulkhead connectors

inserts		page:
CD	40, 64 poles + ⊕	70, 72
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
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
CP	6 poles + ⊕	178
CX	8/24, 6/36, 12/2 poles + ⊕	194 - 199
CX	4/0, 4/2, 4/8, 6/6 poles + ⊕	200 - 206
MIXO	2, 3, 4, 6 modules	262 - 317

bulkhead mounting housings with 2 or 4 pegs

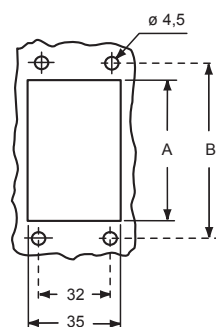


bulkhead mounting housings



description	part No.	part No. C-TYPE	part No. C7
size "44.27"	CHI 06 LCH ¹⁾		C7I 06 L
size "57.27"	CHI 10 CH ²⁾	CHI 10	C7I 10
size "77.27"	CHI 16 CH ²⁾	CHI 16	C7I 16
size "104.27"	CHI 24 CH ²⁾	CHI 24	C7I 24

panel cut-out for bulkhead mounting housings



part No.	A	B
CHI 06 LCH - C7I 06 L	52	70
CHI 10 CH - CHI 10 - C7I 10	65	83
CHI 16 CH - CHI 16 - C7I 16	86	103
CHI 24 CH - CHI 24 - C7I 24	112	130

IMPORTANT NOTE: The enclosures ensure IP66 degree of protection when mated and locked with the closing levers.

CAUS Type 4/4X/12



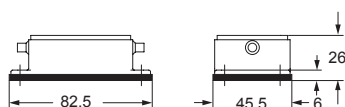
CHI



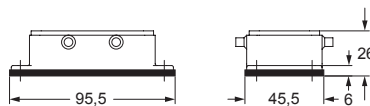
C7I

¹⁾ compatible only with V-Type lever and JEI® plastic lever enclosures
²⁾ may be combined also with enclosures:
 - surface mounting housings (CHP / MHP...)
 - hoods with lever and gasket (LG)

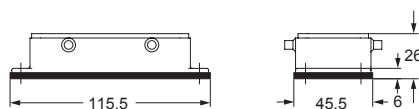
CHI 06 LCH



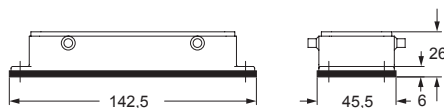
CHI 10 CH



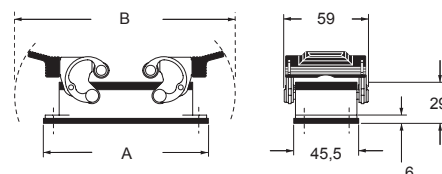
CHI 16 CH



CHI 24 CH

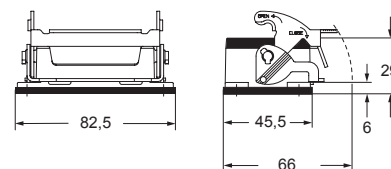


CHI

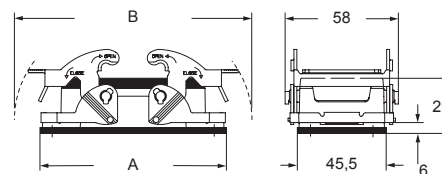


part No.	A	B
CHI 10	95,5	135
CHI 16	115,5	153
CHI 24	142,5	179,5

C7I 06 L



C7I



part No.	A	B
C7I 10	95,5	122
C7I 16	115,5	142,5
C7I 24	142,5	169



CA bottom entry

inserts		page:
CD	64 poles + ⊕	72
CDD	108 poles + ⊕	81
CDS	42 poles + ⊕	-
CDSH	42 poles + ⊕	89
CNE	24 poles + ⊕	113
CSE	24 poles + ⊕	-
CSH	24 poles + ⊕	113
CSH S	24 poles + ⊕	125
CCE	24 poles + ⊕	133
CMSH	10+2 (aux) poles + ⊕	140
CMCE	10+2 (aux) poles + ⊕	141
CSS	24 poles + ⊕	151
CQE	46 poles + ⊕	171
CQEE	64 poles + ⊕	177
CX	4/8 and 6/6 poles + ⊕	204, 206
MIXO	6 modules	262 - 317

surface mounting housings
with 2 levers, bottom entry



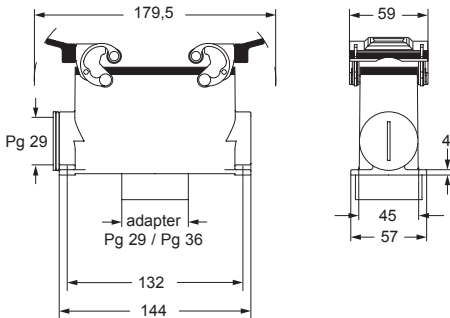
description	part No.	entry Pg
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with levers, high construction, bottom entry with metal
adapter Pg 29 (hole) / Pg 36 (thread)


CAP 24 G36 36


IMPORTANT NOTE: The enclosures ensure IP66
degree of protection when mated and locked with
the closing levers.

CAP G36



CAUS Type
4/4X/12

 insulating cable gland or fittings
without gasket

 cable gland
with O-Ring gasket

Enclosures

CYR cable passing hoods

enclosures:

size "77.27"
size "104.27"

Note:
cannot be used with T-TYPE series

cable passing hoods



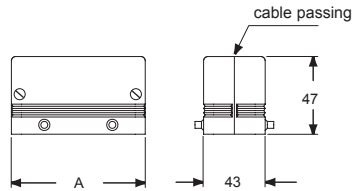
description	part No.	size
with pegs for two levers	CYR 16.3	77.27
3 holes for round cables Ø 5 - 13.5 mm	CYR 24.4	104.27
4 holes for round cables Ø 5 - 13.5 mm		

CYR enclosures for round cables

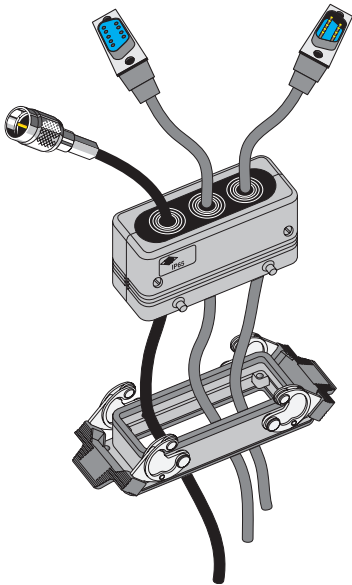
The CYR enclosures are used in installations that require a passage for round cables for data transmission (e.g. computers or PLC) via equipment such as command or control panels, ensuring a good condition of the cable connections.

The enclosures are in two parts and have sealing gaskets to preserve the degree of protection of the equipment. The enclosures also contain a rapid cable block device.

The CYR 16.3 and 24.4 can be used with the **bulkhead mounting housings with 2 levers** respectively.



part No.	A	grommet entry	nr.	size
CYR 16.3	93,5	ø 5 / 13,5	3	77.27
CYR 24.4	120	ø 5 / 13,5	4	104.27



CALUS[®] Type 12





CYG in-line joints

enclosures:
size “77.27”

enclosures for in-line joints



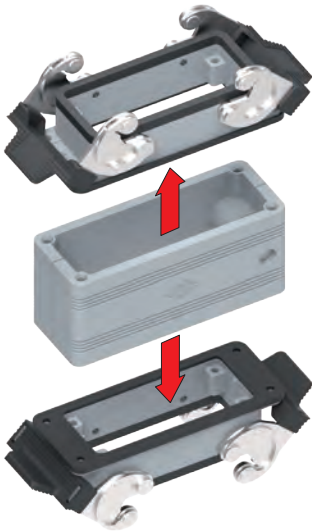
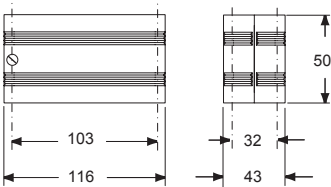
Note:
cannot be used with T-TYPE series
and IP68 series

description	part No.
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without housings (to be ordered separately)
made in two halves

CYG 16

- CYG 16 in-line joint**
- The joint is made with the CYG 16 enclosure and two bulkhead housings “size 77.27” with one or two levers (to be ordered separately).
 - The joint is ideal for use with extension connections and/or as adapter.
 - Made in two halves to facilitate conductor cabling.
 - Two inserts in various combinations may be inserted in the joint (to be ordered separately):
 - female/female inserts (as adapter joint)
 - male/male inserts (as adapter joint)
 - female/male inserts (as extension joint)



CALUS[®] Type 4/4X/12



SPECIAL ENCLOSURES

T-BOX branch coupling

enclosures:

size "44.27"

size "57.27"

1 branch-off T-BOX coupling



1 branch-off T-BOX coupling to be fitted on DIN rails



description

part No.

part No.

for 2 hoods with lever and gasket "44.27" size and one housing "44.27" size

CYG 06H06

for 2 hoods with lever and gasket "44.27" size and one housing "57.27" size

CYG 06H10

for 2 hoods with lever and gasket "44.27" size and one housing "44.27" size

CYG 06H06D

for 2 hoods with lever and gasket "44.27" size and one housing "57.27" size

CYG 06H10D

How to use the CYG 06H branch coupling

The cables are branched off by using the CYG 06H coupling in the 1 or 2 branch-off versions. Multi-pole inserts "44.27" size can be fitted inside the two side recesses.

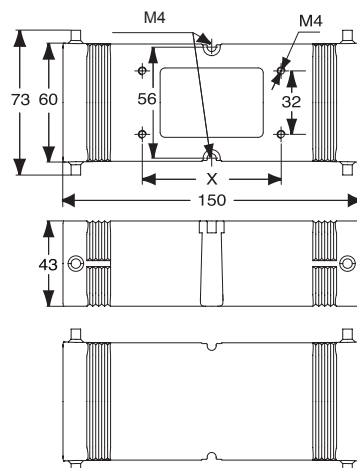
The entire unit can be used with one lever hoods complete with connector inserts.

The front faces can be fitted with "44.27" and/or "57.27" size bulkhead housings.

The coupling may also be used as an adapter by using a combination of different insert versions. The CHC 06 LG cover may be used to close the coupling side faces.

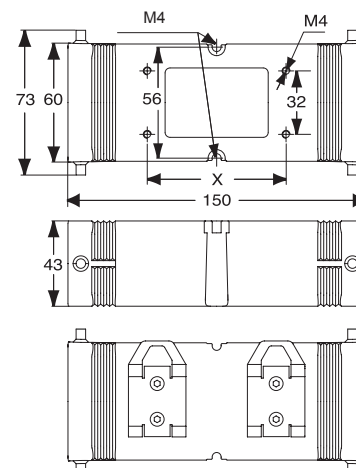
In the branch-offs, the CSS series dual spring terminal inserts allow two wires to be connected without having to fit additional terminals inside the coupling.

CYG...H06 / H10

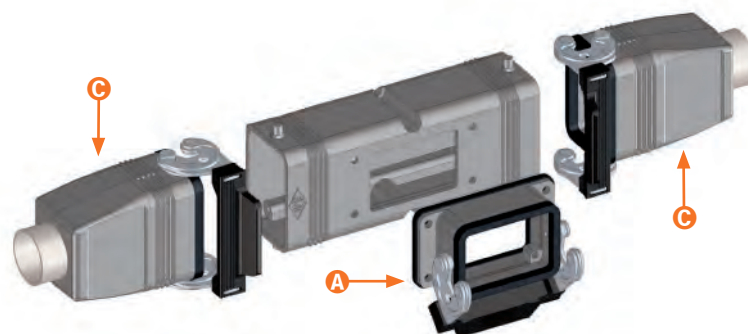


part No.	X
CYG 06H06	70
CYG 06H10	83

CYG...H06D / H10D



part No.	X
CYG 06H06D	70
CYG 06H10D	83



part No.	A	C
CYG 06H06	06	06
CYG 06H10	10	06
CYG 06H06D	06	06
CYG 06H10D	10	06

Legend:

- bulkhead mounting housings
 hoods with lever and gasket (LG)

CALUS Type 4/4X/12

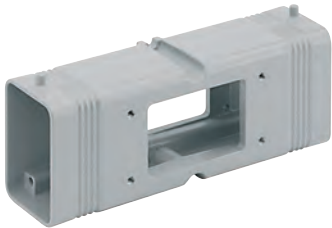




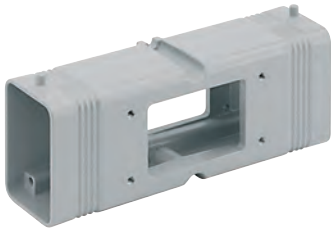
T-BOX branch coupling

enclosures:
size “44.27”
size “57.27”

2 branch-off T-BOX coupling



2 branch-off T-BOX coupling

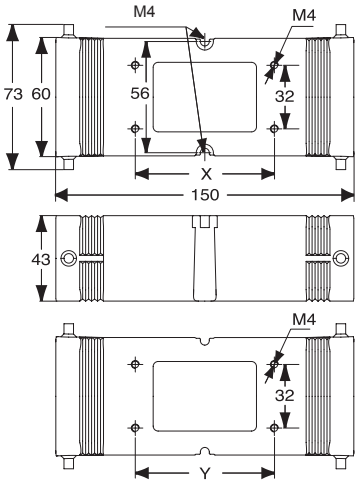


description	part No.	part No.
for 2  hoods with lever and gasket “44.27” size and one “44.27”  size fixing side housing and one “57.27”  size housing	CYG 06H0610	
for 2  hoods with lever and gasket “44.27” size and one “57.27”  size fixing side housing and one “44.27”  size enclosure	CYG 06H1006	
for 2  hoods with lever and gasket “44.27” size and two “44.27”  and  size housing		CYG 06H0606
for 2  hoods with lever and gasket “44.27” size and two “57.27”  and  size housing		CYG 06H1010

How to use the CYG 06H branch coupling

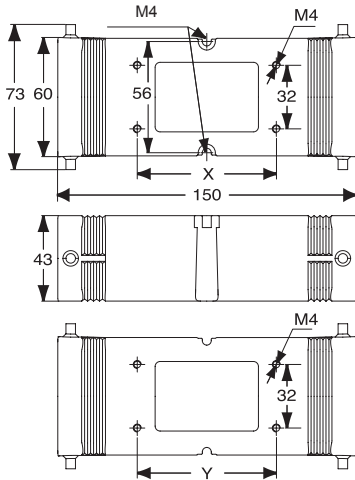
The cables are branched off by using the CYG 06H coupling in the 1 or 2 branch-off versions. Multi-pole inserts “44.27” size can be fitted inside the two side recesses. The entire unit can be used with one lever hoods complete with connector inserts. The front faces can be fitted with “44.27” and/or “57.27” size bulkhead housings. The coupling may also be used as an adapter by using a combination of different insert versions. The CHC 06 LG cover may be used to close the coupling side faces. In the branch-offs, the CSS series dual spring terminal inserts allow two wires to be connected without having to fit additional terminals inside the coupling.

CYG...H0610 / H1006



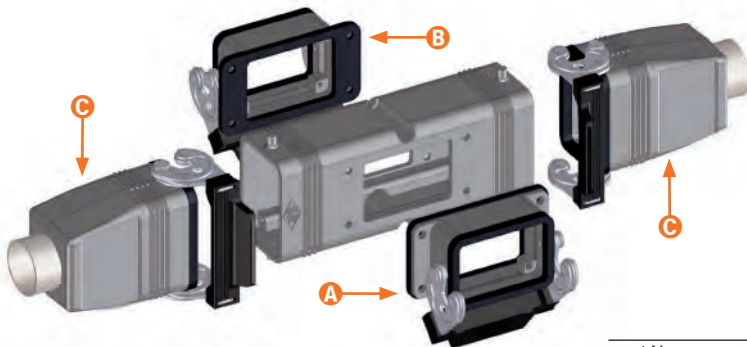
part No.	X	Y
CYG 06H0610	83	70
CYG 06H1006	70	83




CYG...H0606 / H1010



part No.	X	Y
CYG 06H0606	70	70
CYG 06H1010	83	83

CAL[®]US Type 4/4X/12



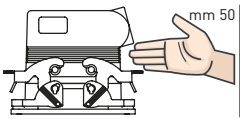
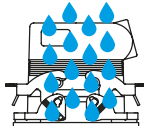
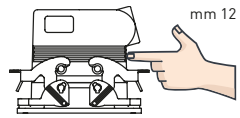
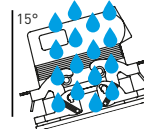
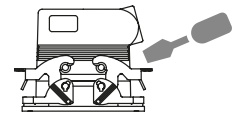
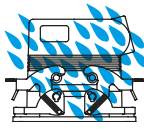
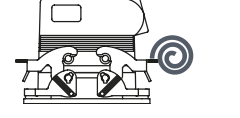
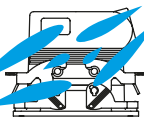
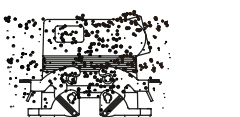
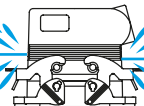
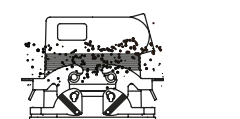
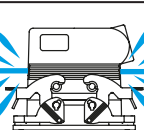
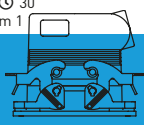
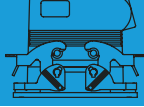
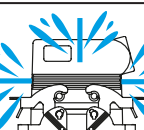
Legend:
 bulkhead mounting housings
 bulkhead mounting housings
 hoods with lever and gasket (LG)

part No.	A	B	C
CYG 06H0610	06	10	06
CYG 06H1006	10	06	06
CYG 06H0606	06	06	06
CYG 06H1010	10	10	06

THE DEGREE OF PROTECTION

The connector's housing, sealing and locking mechanism protect the connection from external influences such as mechanical shocks, foreign bodies, humidity, dust, water or other fluids such as cleansing and cooling agents, oils, etc. The degree of protection the housing offers is explained in the IEC 60529, DIN EN 60529, standards that categorize enclosures according to foreign body and water protection.

The following table shows the **IP (Ingress Protection) Ratings Guide**.

FIRST Index figure	Degree of protection SOLIDS		SECOND Index figure	Degree of protection WATER	
0		No protection	0		No protection
1		Protected against access to hazardous parts with the back of a hand and protected against solid foreign objects of Ø 50 mm and greater	1		Protected against vertically falling water drops
2		Protected against access to hazardous parts with a finger - protected against solid foreign objects of Ø 12,5 mm and greater	2		Protected against vertically falling water drops when enclosure tilted up to 15° (on either side of the vertical)
3		Protected against access to hazardous parts with a tool - protected against solid foreign objects of Ø 2,5 mm and greater	3		Protected against spraying water (at an angle up to 60° on either side of the vertical)
4		Protected against access to hazardous parts with a wire - protected against solid foreign objects of Ø 1,0 mm and greater	4		Protected against splashing water from any direction
5		Protected against access to hazardous parts with a wire dust-protected (no harmful dust deposit)	5		Protected against water jets from any direction
6		Protected against access to hazardous parts with a wire dust-tight (total protection against dust)	6		Protected against powerful water jets from any direction (similar to sea waves)
RATING EXAMPLE IP 6 5			7		Protected against the effects of temporary immersion in water at a maximum depth of 1 metre for 30 min
			8		Protected against the effects of continuous immersion in water at depth and/or duration upon agreement, more severe than for numeral 7
			9		Protected against high pressure and temperature water jets from any direction

Description according to IEC 60529

CHANGEOVER FROM PG THREADS TO METRIC

After 31st December 1999, the German safety standard DIN VDE 0619 (1987-09) and the standards it refers to - DIN 46319 for dimensions with metric threads and DIN 46320 (T1-T4), DIN 46255 and DIN 46259 for dimensions with Pg threads (Pg = Panzerrohr-Gewinde: literally "threads for armoured pipes") - were withdrawn and European standard EN 50262 "Metric cable glands for electrical installations" has been in force since 1st January 2000.

This standard defines the new sizes with metric threads for cable glands according to EN 60423 and establishes the safety prescriptions.

Conversely, it does not specify the dimensions, such as the size of the tightening wrench, the diagonal dimension, or the dimensions of the tightness seals, as was the case in the withdrawn DIN for Pg cable glands.

The standard came definitively into force on 1st April 2001, when the contrasting national standards were withdrawn.

It is valid in all member countries of CENELEC (European Electrical Standardisation Committee) and its publication has led to a broadening of the supply of enclosures for multi-pole connectors for industrial use, to include new enclosure versions with cable entry suitable for metric cable glands.

NOTE – In 2016 the new EN 62444:2013 standard "Cable glands for electrical installations" replaced the former to cover only cable gland with metric thread whose range is now M6 through M110 (previously up to M75).

Cable gland producers have introduced the new metric series to add to the Pg size series, to gradually replace the latter type. The transitional period indicated in the new standard should have ended on 1st March 2001, after which date the use of cable entry devices with Pg thread and, as a result, enclosures with Pg thread, should have ended in new installations. Nevertheless, both the cable entry devices and the relevant enclosures with Pg thread, may continue to be used as spare parts. For the mandatory **CE** marking of these items, observance of the safety conditions specified by the Low Voltage Directive is sufficient, however adherence to the safety requirements of EN 62444 provides presumption of conformity.

To distinguish hoods and surface-mounting housings with metric entries from the relevant Pg versions (identified with a C pre-code), the ILME metric types are identified with an M pre-code. The transposition table below indicates the correspondence rule adopted in most cases by ILME for creating the new metric versions.

Pg → metric transposition table

Pg	Metric
Pg 11	M20
Pg 13.5	M20
Pg 16	M20
Pg 21	M25
Pg 29	M32
Pg 36	M40
Pg 42	M50

Cable diameter for use with ILME cable glands

Ø in mm	Metric thread				
Series	20	25	32	40	50
AS M..P	6 - 12,5	10 - 18	14 - 24	15 - 24	23 - 30
AS M..E	8 - 12,5	13,5 - 18	17 - 24	—	—
AG M..T	6 - 8 - 10	11 - 14 - 17	19 - 21 - 24	26 - 29 - 32	35 - 38 - 41
AG M..I	5 - 12,5	9 - 18	14 - 25	18 - 32	24 - 38,5
AG M..R	6 - 8 - 10	11 - 14 - 17	19 - 21 - 24	—	—

For more information, please refer to the technical catalogue on www.ilme.com