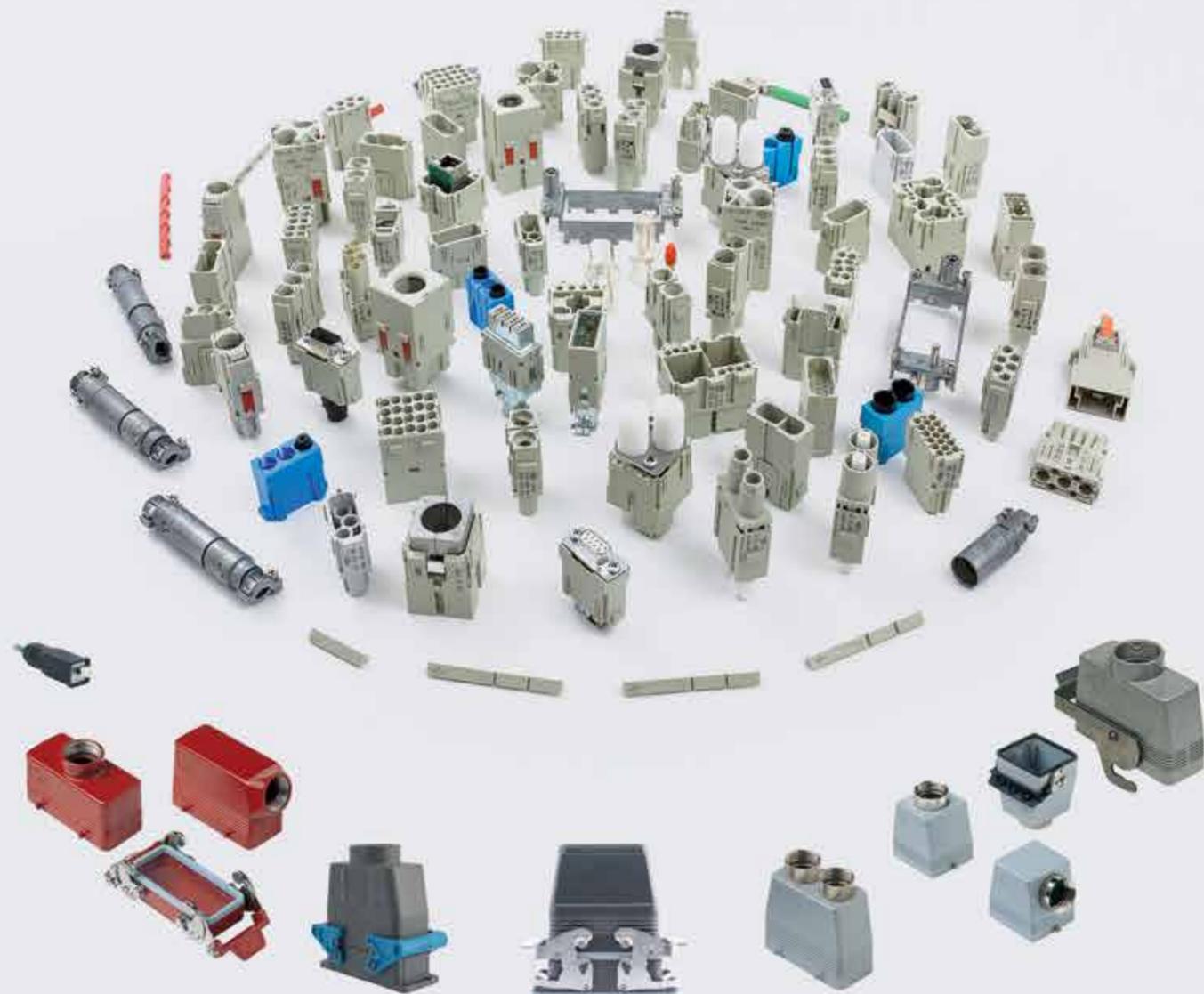


CONNECTORS



INDUSTRIA LOMBARDA MATERIALE ELETTRICO SpA has been operating in Milan since 1938, in particular in the electrotechnical sector for the manufacturing of equipment for industrial installations. ILME reflects the traditional entrepreneurial spirit of Lombardy, and has enjoyed continuous expansion for over half a century. The company has carved an important role for itself in the main world markets, also operating directly in the countries that have assumed world leadership in the field of automation, including Germany and Japan. In the electrical connection sector with applications in industrial automation, characterised by high performance and utmost reliability needs, ILME is today the acknowledged partner of many leading companies worldwide.



Some years ago, the entertainment industry has chosen the Socapex SL61 connectors to become the world wide standard for power distribution interconnect. Socapex is now worldwide known as a major connector manufacturer for entertainment applications. The brand is so famous that "Socapex" can be considered has the worldwide generic name for 19, 7 and 37 pins connectors. Some people even call it the "Soca". Socapex is the sole and only manufacturer of the Socapex SL61 connectors.

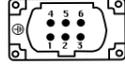
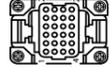
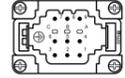


Ten 47 Powerline connectors are used in lighting distribution panels. Typical applications include outdoor concerts, theatres, television outdoor broadcasts. Ten 47 "Powerline" contacts are retained by means of a spring clip design that can retain the equivalent weight of 100 metres of 240mm² cable. The contacts are inserted from the rear and "snap" into position within the Insulator with no requirement for any Cotter/Dowel pin or assembly tools. A simple removal tool is supplied to release the contact from the insulator. As our clip design does not require any holes through the Insulator, it provides several advantages over the "cotter/dowel pin" design reducing assembly times by upto 50 percent.

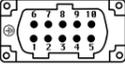
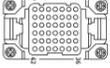
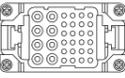
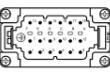


Size 44.27

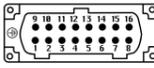
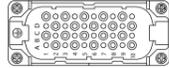
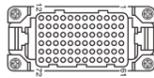
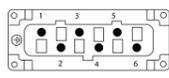
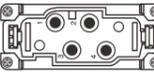
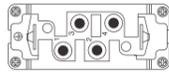
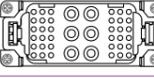
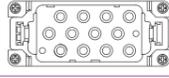
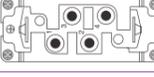
Click the size to go to the category

6 Pin 16 amp 400 volt		24 Pin 10 amp 250 volt (crimp)		330-331
9 pin 10 amp 400 volt				

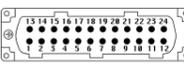
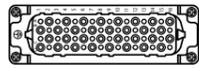
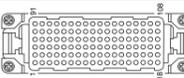
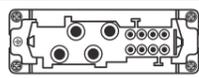
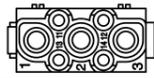
Size 57.27

10 Pin 16 amp 400 volt		42 Pin 10 amp 250 volt (crimp)		332-335
8 Pin 16 amp 400 volt + 24 Pin 10amp 250 Volt (crimp)		18 Pin 10 amp 400 volt		

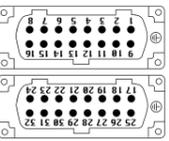
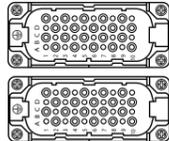
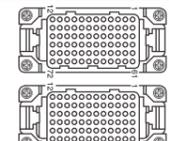
Size 77.27

16 Pin 16 amp 400 volt		40 pin 10 amp 250 volt (crimp)		336-339
72 pin 10 amp 250 volt (crimp)		6 pin 35 amp 400 volt		
4 pin 80 amp 690 volt		4 Pin 80 amp 690 volt + 2 pin 16 amp 400 volt		
6 Pin 40 amp 690 volt + 36 pin 10 amp 250 volt		12 Pin 40 amp 690 volt + 2 pin 10 amp 250 volt		
6 pin 40 amp 690volt + 12 pin 10amp 400volt				

Size 104.27

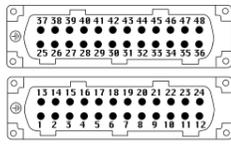
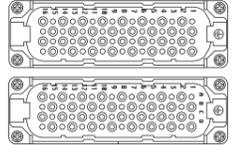
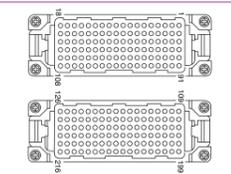
24 pin 16amp 400 volt		64 pin 10amp 250 volt (crimp)		340-343
108 pin 10amp 250 volt (crimp)		4 pin 80amp 690 volt + 8 pin 16amp 400 volt		
6 Pin 100amp 690volt + 6 pin 16amp 400volt				

Size 77.62

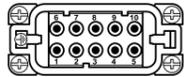
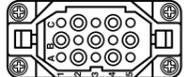
32 Pin 16amp 400 volt		80 Pin 10amp 250 volt (crimp)		344-347
144 Pin 10amp 250 volt (crimp)				

Size 104.62

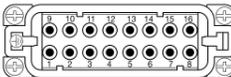
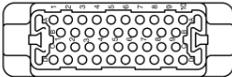
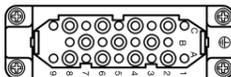
Click the size to go to the category

48 Pin 16amp 400 volt		128 Pin 10amp 250 volt (crimp)		348-349
216 Pin 10amp 250 volt (crimp)				

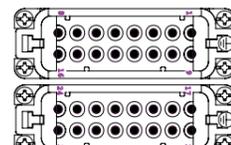
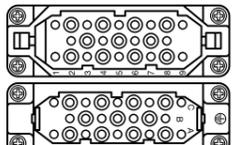
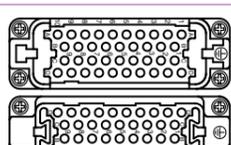
Size 49.16

10 Pin 16amp 400 volt		15 Pin 10amp 250 volt (crimp)		350-351
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Size 66.16

16 Pin 16amp 400 volt		38 Pin 10amp 250 volt (crimp)		352-353
25 Pin 10amp 250 volt (crimp)				

Size 66.40

32 Pin 16 amp 400 volt		50 Pin 10 amp 250 volt (crimp)		354-355
76 Pin 10 amp 250 volt (crimp)				

Size 21.21

3 pin & Earth 10amp 250 volt		4 pin & Earth 10amp 250 volt		356-359
8pin 10amp 50 volt (crimp)t		5 pin & Earth 16amp 400 volt (crimp)		
12 Pin 10 amp 400 volt (crimp)		21 Pin 6.5 amp 50 volt (crimp)		
2 Pin 40 amp 400 volt (crimp)				

5

Back to contents page

5

Back to contents page



Size 32.13

Click the size to go to the category

4 Pin 40 amp + 2 Pin 10 amp		8 Pin 16 amp 500 volt (crimp)		360-361
17 Pin 10 amp 160 volt (crimp)				

Mixo Modular Units

Control Power BUS RJ45 Pneumatics	Mixo Modular Units enable you to combine all these services into the one connector		362-366
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Crimp Pins

10 amp, 16 amp, 40 amp		367
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Crimp Tools

Crimp Tools, Insertion & Extraction Tools		368
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Coding Pins

Coding Pins		369
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RJ 45

In-Line, Panel Mount, Coupler & Universal Adaptors		370
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Special Solutions

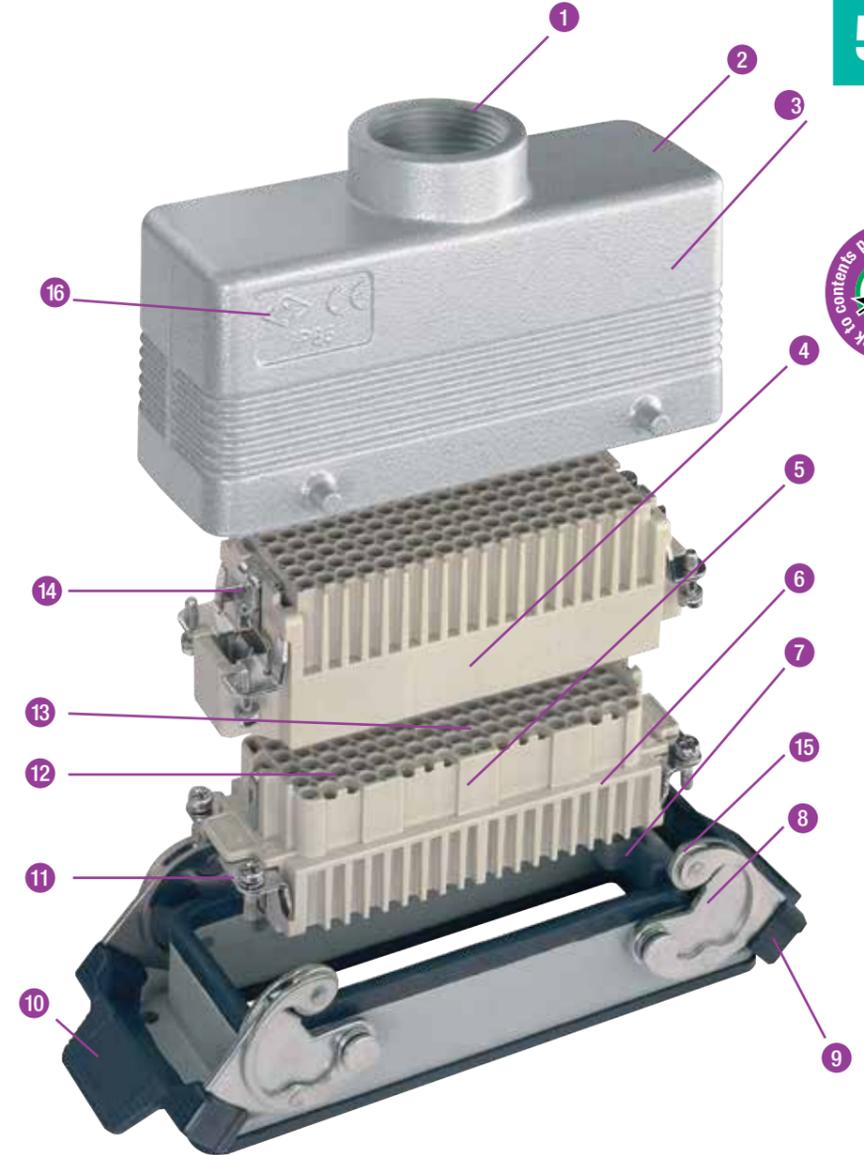
180oC, T-Type, W-Type, E-Xtreme, EMC, BIG, Central Lever, IP68		371-379
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Entertainment Solutions

Headers, Tails, Looms		380-387
Powerline 400 amp Single Pole		
Ceeform		
Softflex Stage Event Cable		

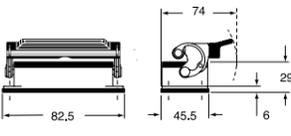
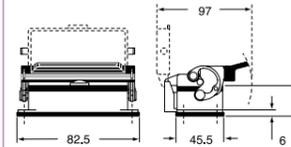
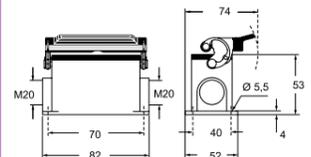
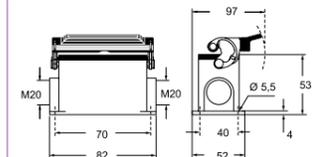
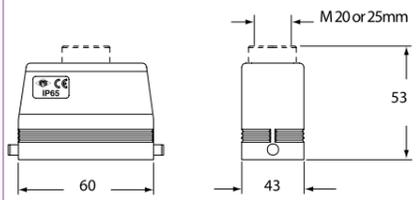
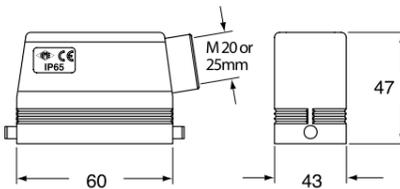
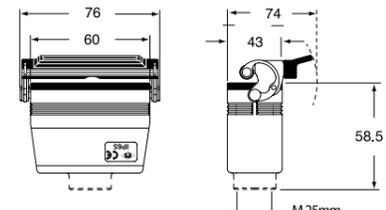
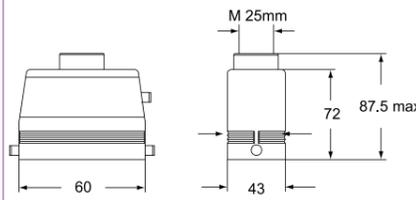
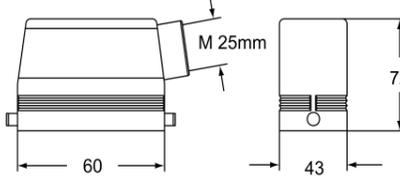
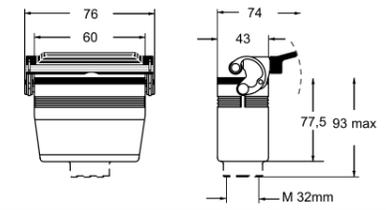
General features of multipole connectors for industrial purposes

- 1 Threaded cable passage in various Pg diameters (types with pre-code "C") or metric passage (types with pre-code "M") in accordance with EN 60423, for cable entry devices in accordance with EN 50262 (NPT threading on request), may be located vertically, horizontally or frontally.
- 2 Heavy duty enclosures in die-cast aluminium alloy or self-extinguishing thermoplastic (CK and MK series).cRUus certified Wall mounting or bulkhead housings and hoods are available, with or without fixed covers or with mobile protection covers. The types of enclosures CH-CA (Pg cable entries) and MH-MA (metric cable entries) have a tab that prevents the insertion of inserts series CME (all) and CMCE (only 16+2 poles), while CM (Pg) enclosures series and MM (metric) do not have any tabs and contain supplementary insulating strips inside.
- 3 Metallic enclosures with a coated finish of epoxy-polyester with high resistance to mechanical stress and external agents. Enclosures used with temperatures of up to 180 °C and in aggressive environments are treated with special coatings. Where electromagnetic compatibility is necessary: EMC enclosures with high conductivity and high corrosion resistance surface treatment.
- 4 Inserts in self-extinguishing thermoplastic material reinforced with glass fibres, UL approved, with a limit working temperature from -40 °C to +125 °C. The inserts CME (all) and CMCE (only 16+2 poles) for 830V have a key that prevents the insertion of inserts for use other than that prescribed (types CM - Pg and MM - metric). For some series, inserts in PPS (polyphenylene sulphide) may be requested for special uses with temperatures of up to 180 °C.
- 5 Polarized inserts with asymmetric guide rails for preventing incorrect coupling. The inserts have a mechanical duration equal to or over 500 coupling cycles.
- 6 Inserts manufactured in conformity with EN 61984 (DIN VDE 0627 standard and are certified and identified with the UL and CSA marks.
- 7 Special seal gaskets in vinyl nitrile elastomer or fluoro elastomer (on enclosures for use with maximum temperatures of 180 °C and for aggressive environments), in anti-aging, oil-resistant, fuel-resistant, together with the cable entry devices (not supplied) provide an IP66 degree of protection for coupled connectors. Special conductive seals for EMC enclosures.
- 8 Stainless steel closure levers and springs guarantee a perfect closure and sealing.
- 9 Locking device available in two versions, simple (with one lever), or double (with two levers).
- 10 Various types of handles are available: in self-extinguishing, thermoplastic material reinforced with glass fibres; in die-cast aluminium (for special use with temperatures of up to 180 °C); monoblock stainless steel handles (CK, CZ, MK, MZ enclosures and for special uses with temperatures of up to 180 °C).
- 11 Unlosable insert fastening screws, with anti-loosening flexible washer.
- 12 Contacts position identified with numbers or codes on both sides of each insert and laser printed or moulded.
- 13 Contacts in silver or gold-plated brass with connections to the conductors made via unlosable unloosened screws, spring terminal, crimping or incorporated 45° terminal block connectors (with screw or spring terminal).
- 14 Earth terminal protection with wide contact surface.
- 15 Pegs and levers supplied with anti-friction rings that facilitate closure and limit wear and tear.
- 16 CE marking attesting conformity to the requirements of the Low Voltage directive 73/23/EEC and its modification 93/68/EEC.

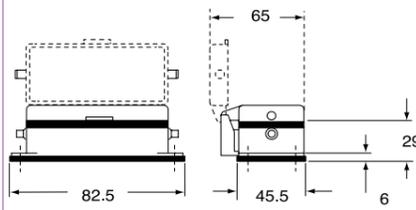
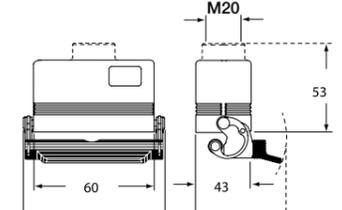
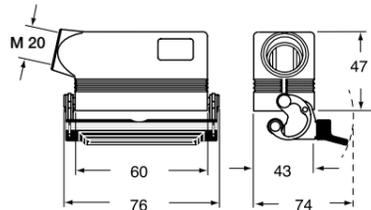
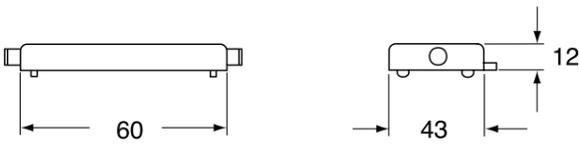
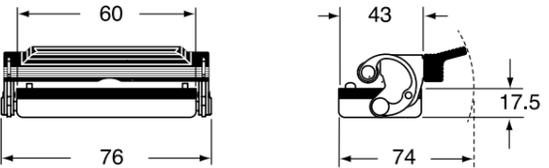
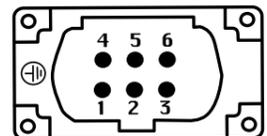
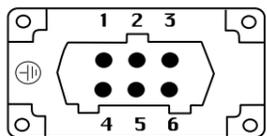
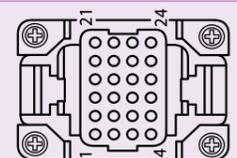
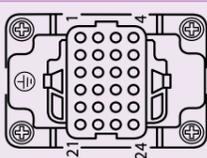
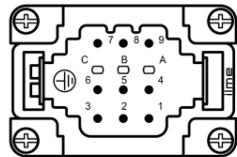
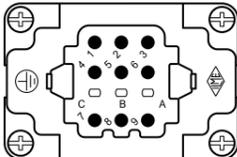




CH-MH Enclosures

CHI 06 L	CHI 06 LS	MHP 06 L220	MHP 06 LS220
 	 	 	 
MHV 06 L20 MHV 06 L25	MHO 06 L20 MHO 06 L25	MHV 06 LG25	
 	 	 	
MAV 06 L25	MAO 06 L25	MAV 06 LG32	
 	 	 	

CH-MH Enclosures

CHI 06 LCS	MHV 06 LX20	MHO 06 LX20	
 	 	 	
CHC 06 L	CHC 06 LG		
 	 		
Male Inserts		Female Inserts	
CNEM 06 T 6 Pin 16 amp 400 volt		CNEF 06 T 6 Pin 16 amp 400 volt	
CDDM 24 (crimp pins) 24 Pin 10 amp 250 volt		CDDF 24 (crimp pins) 24 Pin 10 amp 250 volt	
CDSHM 09 9 Pin 10 amp 400 volt		CDSHF 09 9 Pin 10 amp 400 volt	

All dimensions in mm.

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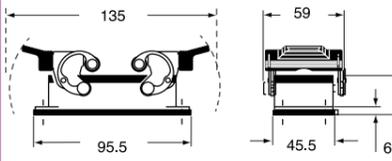
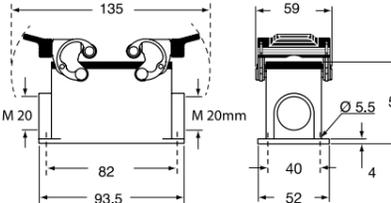
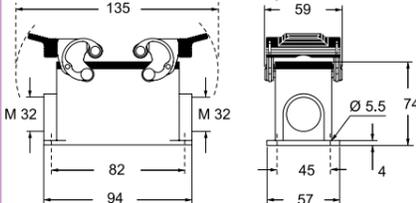
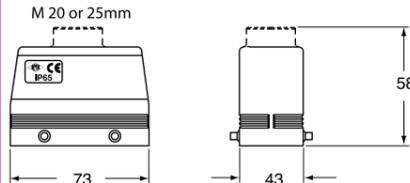
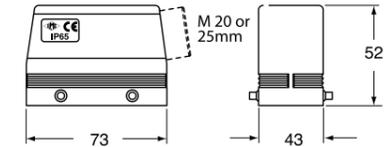
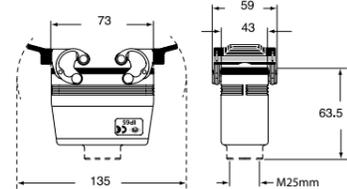
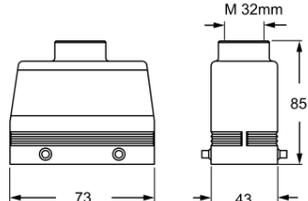
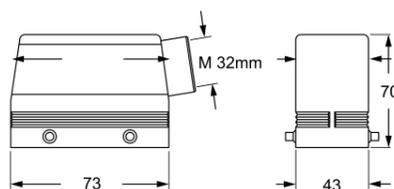
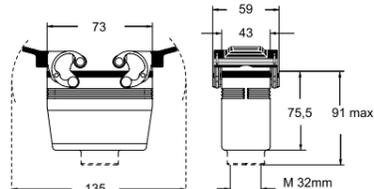
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CH-MH-MA Enclosures

Size 57.27
Double Locking

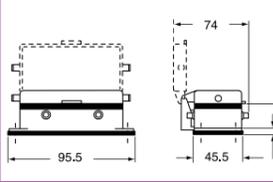
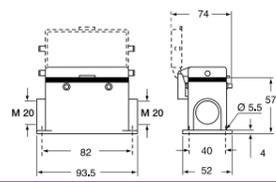
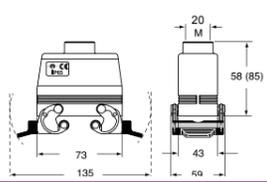
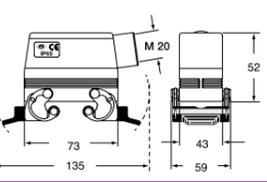
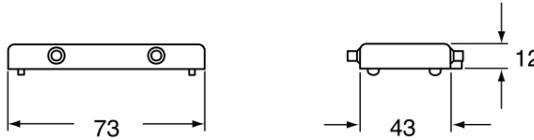
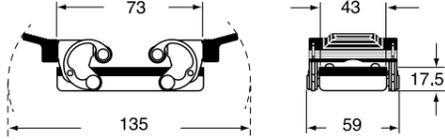
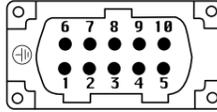
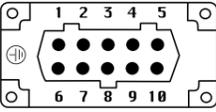
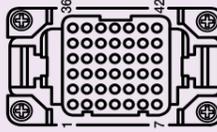
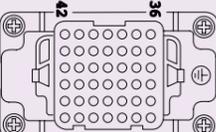
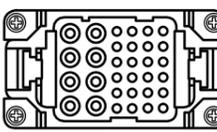
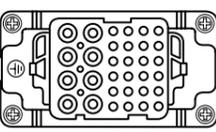
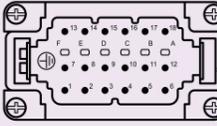
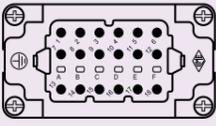
CHI 10	MHP 10.220	MAP 10.232
		
		
MHV 10.20 MHV 10.25	MHO 10.20 MHO 10.25	MHV 10 G25
		
		
MAV 10.32	MAO 10.32	MAV 10 G32
		
		

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CH-MH-MA Enclosures

Size 57.27
Double Locking

CHI 10 CS	MHP 10 CS220	MHV 10 X20	MHO 10 X20
			
			
CHC 10	CHC 10 G		
			
			
Male Inserts		Female Inserts	
CNEM 10 T 10 Pin 16 amp 400 volt		CNEF 10 T 10 Pin 16 amp 400 volt	
CDDM 42 (crimp pins) 42 Pin 10 amp 250 volt		CDDF 42 (crimp pins) 42 Pin 10 amp 250 volt	
CXM 8/24 (crimp pins) 8 Pin 16 amp 400 volt + 24 Pin 10 amp 250 volt		CXF 8/24 (crimp pins) 8 Pin 16 amp 400 volt + 24 Pin 10 amp 250 volt	
CDSHM 18 18 Pin 10 amp 400 volt		CDSHF 18 18 Pin 10 amp 400 volt	

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CH-MH-MA Enclosures

Size 57.27
Single locking

CHI 10L	CHI 10 LS	MHP 10 L220	MHP 10 LS220

MHV 10 L20 MHV 10 L25	MHO 10 L20 MHO 10 L25	MHV 10 LG25

MAV 10 L32	MAO 10 L32	MAV 10 LG32

CH-MH-MA Enclosures

Size 57.27
Single locking

CHC 10 L	CHC 10 LG

Male Inserts	Female Inserts
CNEM 10 T 10 Pin 16 amp 400 volt 	CNEF 10 T 10 Pin 16 amp 400 volt
CDDM 42 (crimp pins) 42 Pin 10 amp 250 volt 	CDDF 42 (crimp pins) 42 Pin 10 amp 250 volt
CXM 8/24 (crimp pins) 8 Pin 16 amp 400 volt + 24 Pin 10 amp 250 volt 	CXF 8/24 (crimp pins) 8 Pin 16 amp 400 volt + 24 Pin 10 amp 250 volt
CDSHM 18 18 Pin 10 amp 400 volt 	CDSHF 18 18 Pin 10 amp 400 volt

All dimensions in mm. For crimp pins refer to page 367.





CH-MH-MA Enclosures

Size 77.27
Double Locking

CHI 16	MHP 16.225	MAP 16.240

MHV 16.25 MHV 16.32	MHO 16.25 MHO 16.32	MHV 16 G32

MAV 16.32	MAO 16.32	MAV 16 G32

CH-MH-MA Enclosures

Size 77.27
Double Locking

CHI 16 CS	MHP 16 CS 225	MHV 16 X25	MHO 16 X25

CHC 16	CHC 16G

Male Inserts		Female Inserts	
CNEM 16 T 16 pin 16 amp 400 volt		CNEF 16 T 16 pin 16 amp 400 volt	
CDM 40 40 pin 10 amp 250 volt (crimp)		CDF 40 40 pin 10 amp 250 volt (crimp)	
CDDM 72 72 pin 10 amp 250 volt (crimp)		CDDF 72 72 pin 10 amp 250 volt (crimp)	
CPM 06 6 pin 35 amp 400 volt		CPF 06 6 pin 35 amp 400 volt	
CXM 4/0 4 Pin 80 amp 690 volt		CXF 4/0 4 Pin 80 amp 690 volt	
CXM 4/2 4 pin 80 amp 690 volt + 2 pin 16 amp 400 volt		CXF 4/2 4 pin 80 amp 690 volt + 2 pin 16 amp 400 volt	
CXM 6/36 6 pin 40 amp 690 volt + 36 pin 10 amp 250 volt		CXF 6/36 6 pin 40 amp 690 volt + 36 pin 10 amp 250 volt	
CXM 6/12 6 pin 40 amp 690 volt + 12 pin 10 amp 400 volt		CXF 6/12 6 pin 40 amp 690 volt + 12 pin 10 amp 400 volt	
CXM 12/2 12 Pin 40 amp 690 volt + 2 pin 10 amp 250 volt		CXF 12/2 12 Pin 40 amp 690 volt + 2 pin 10 amp 250 volt	

All dimensions in mm. For crimp pins refer to page 367.



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CH-MH Enclosures

Size 77.27
Single Locking

CHI 16 L	CHI 16 LS	MHP 16 L225	MHP 16 LS225

MHV 16 L25 MHV 16 L32	MHO 16 L25 MHO 16 L32	MHV 16 LG32

MAV 16 L32	MAO 16 L32	MAV 16 LG32

CH-MH Enclosures

Size 77.27
Single Locking

CHC 16 L	CHC 16 LG

Male Inserts		Female Inserts	
CNEM 16 T 16 pin 16 amp 400 volt		CNEF 16 T 16 pin 16 amp 400 volt	
CDM 40 40 pin 10 amp 250 volt (crimp)		CDF 40 40 pin 10 amp 250 volt (crimp)	
CDDM 72 72 pin 10 amp 250 volt (crimp)		CDDF 72 72 pin 10 amp 250 volt (crimp)	
CPM 06 6 pin 35 amp 400 volt		CPF 06 6 pin 35 amp 400 volt	
CXM 4/0 4 Pin 80 amp 690 volt		CXF 4/0 4 Pin 80 amp 690 volt	
CXM 4/2 4 pin 80 amp 690 volt + 2 pin 16 amp 400 volt		CXF 4/2 4 pin 80 amp 690 volt + 2 pin 16 amp 400 volt	
CXM 6/36 6 pin 40 amp 690 volt + 36 pin 10 amp 250 volt		CXF 6/36 6 pin 40 amp 690 volt + 36 pin 10 amp 250 volt	
CXM 6/12 6 pin 40 amp 690 volt + 12 pin 10 amp 400 volt		CXF 6/12 6 pin 40 amp 690 volt + 12 pin 10 amp 400 volt	
CXM 12/2 12 Pin 40 amp 690 volt + 2 pin 10 amp 250 volt		CXF 12/2 12 Pin 40 amp 690 volt + 2 pin 10 amp 250 volt	

All dimensions in mm. For crimp pins refer to page 367.





CH-MH Enclosures

Size 104.27
Double Locking

CHI 24	MHP 24.225	MAP 24.240

MHV 24.25 MHV 24.32	MHO 24.25 MHO 24.32	MHV 24 G32

MAV 24.32	MAO 24.32	MAV 24 G32

CH-MH Enclosures

Size 104.27
Double Lever

CHI 24 CS	MHP 24 CS 225	MHV 24 X25	MHO 24 X25

CHC 24	CHC 24 G

Male Inserts		Female Inserts	
CNEM 24 T 24 pin 16 amp 400 volt		CNEF 24 T 24 pin 16 amp 400 volt	
CDM 64 64 pin 10 amp 250 volt (crimp)		CDF 64 64 pin 10 amp 250 volt (crimp)	
CDDM 108 108 pin 10 amp 250 volt (crimp)		CDDF 108 108 pin 10 amp 250 volt (crimp)	
CXM 4 / 8 4 pin 80 amp 690 v + 8 pin 16a 400 v		CXF 4 / 8 4 pin 80 amp 690 v + 8 pin 16a 400 v	
CXM 6 / 6 6 Pin 100 amp 690volt + 6 pin 16amp 400volt		CXF 6 / 6 6 Pin 100 amp 690volt + 6 pin 16 amp 400volt	
CDSHM 42 42 Pin 10 amp 400 volt (Squich)		CDSHF 42 42 Pin 10 amp 400 volt (Squich)	

All dimensions in mm. For crimp pins refer to page 367.





CH-MH-MA Enclosures

Size 104.27
Single Locking

CHI 24 L	CHI 24 LS	MHP 24 L225	MHP 24 LS225

MHV 24 L25 MHV 24 L32	MHO 24 L25 MHO 24 L32	MHV 24 LG32
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MAV 24 L32	MAO 24 L32	MAV 24 LG32
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CH-MH-MA Enclosures

Size 104.27
Single Lever

CHC 24 L	CHL 24 LG
<p>For fixings on housings</p> <p>Eyelet Loop</p>	<p>For fixings on housings</p> <p>Eyelet Loop</p>

Male Inserts	Female Inserts
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<p>CNEM 24 T 24 pin 16 amp 400 volt</p>	<p>CNEF 24 T 24 pin 16 amp 400 volt</p>
<p>CDM 64 64 pin 10 amp 250 volt (crimp)</p>	<p>CDF 64 64 pin 10 amp 250 volt (crimp)</p>
<p>CDDM 108 108 pin 10 amp 250 volt (crimp)</p>	<p>CDDF 108 108 pin 10 amp 250 volt (crimp)</p>
<p>CXM 4 / 8 4 pin 80 amp 690 v + 8 pin 16a 400 v</p>	<p>CXF 4 / 8 4 pin 80 amp 690 v + 8 pin 16a 400 v</p>
<p>CXM 6 / 6 6 Pin 100 amp 690volt + 6 pin 16amp 400volt</p>	<p>CXF 6 / 6 6 Pin 100 amp 690volt + 6 pin 16amp 400volt</p>

All dimensions in mm. For crimp pins refer to page 367.





CH-MH-MA Enclosures

Size 77.62
Double Lever

CHI 32	MHP 32.240

MHV 32.40	MHO 32.40	MHV 32 G40

CHC 32	CHC 32G

CH-MH-MA Enclosures

Size 77.62
Double Lever

CHI 32 CS	MHV 32 X40	MHO 32 X40

Male Inserts		Female Inserts	
CNEM 16 T 16 Pin (1-16) 16 amp 400 volt		CNEF 16 T 16 Pin (1-6) 16 amp 400 volt	
CNEM 16 TN 16 Pin (17-32) 16 amp 400 volt		CNEF 16 TN 16 Pin (17-32) 16 amp 400 volt	
CDM 40 x 2 (inserts) 80 pin 10 amp 250 volt (crimp)		CDF 40 x 2 (inserts) 80 pin 10 amp 250 volt (crimp)	
CDDM 72 x 2 (inserts) 144 pin 10 amp 250 volt (crimp)		CDDF 72 x 2 (inserts) 144 pin 10 amp 250 volt (crimp)	

All dimensions in mm. For crimp pins refer to page 367.





CH-MH-MA Enclosures

Size 77.62
Single Lever

CHI 32 L	CHI 32 LS

MHP 32 L250	MHP 32 LS250

MHV 32 L40	MHO 32 L40	MHV 32 LG40

CH-MH-MA Enclosures

Size 77.62
Single Lever

CHC 32 L	CHC 32 LG

Male Inserts		Female Inserts	
CNEM 16 T 16 Pin (1-16) 16 amp 400 volt		CNEF 16 T 16 Pin (1-6) 16 amp 400 volt	
CNEM 16 TN 16 Pin (17-32) 16 amp 400 volt		CNEF 16 TN 16 Pin (17-32) 16 amp 400 volt	
CDM 40 x 2 (inserts) 80 pin 10 amp 250 volt (crimp)		CDF 40 x 2 (inserts) 80 pin 10 amp 250 volt (crimp)	
CDDM 72 x 2 (inserts) 144 pin 10 amp 250 volt (crimp)		CDDF 72 x 2 (inserts) 144 pin 10 amp 250 volt (crimp)	

All dimensions in mm. For crimp pins refer to page 367.



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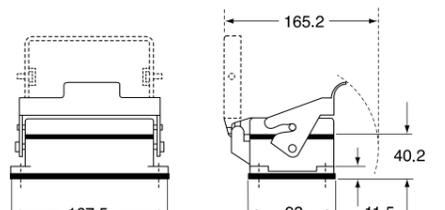
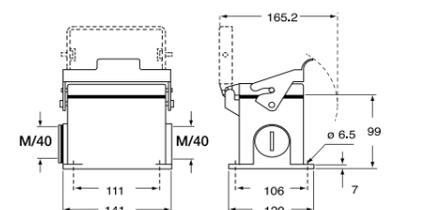
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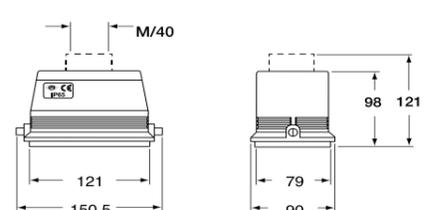
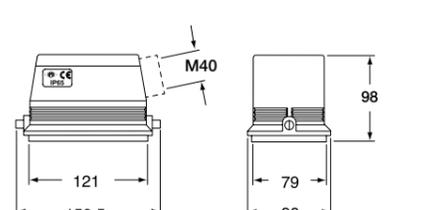




CH-MH Enclosures

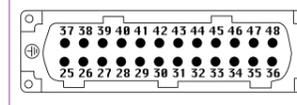
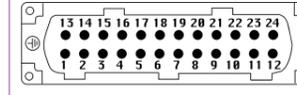
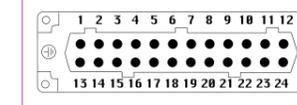
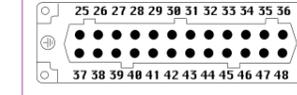
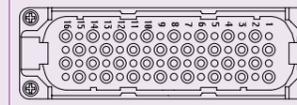
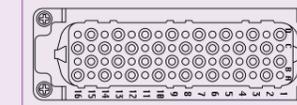
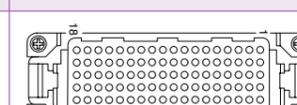
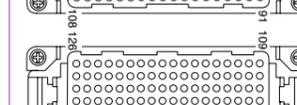
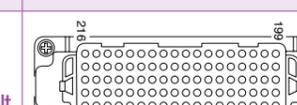
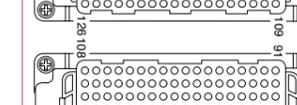
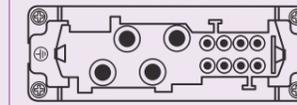
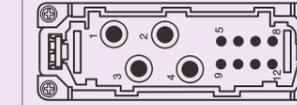
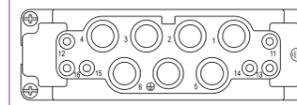
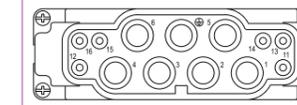
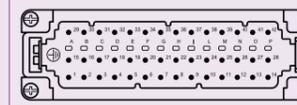
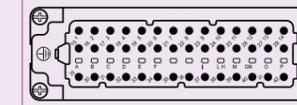
Size 104.62

CHI 48 LS	MHP 48 LS40
 	 

MHV 48 L40	MHO 48 L40
 	 

CH-MH Enclosures

Size 104.62

	Male Inserts		Female Inserts
<p>CNEM 24 T 24 Pin (1-24) 16 amp 400 volt</p> <p>CNEM 24 TN 24 Pin (25-48) 16 amp 400 volt</p>	 	<p>CNEF 24 T 24 Pin (1-24) 16 amp 400 volt</p> <p>CNEF 24 TN 24 Pin (25-48) 16 amp 400 volt</p>	 
<p>CDM 64 x 2 128 Pin 10 amp 250 volt (crimp)</p>		<p>CDF 64 x 2 128 Pin 10 amp 250 volt (crimp)</p>	
<p>CDDM 108 108 Pin (1-108) 10 amp 250 volt (crimp)</p> <p>CDDM 108 N 108 Pin (109-216) 10 amp 250 volt (crimp)</p>	 	<p>CDDF 108 108 Pin (1-108) 10 amp 250 volt (crimp)</p> <p>CDDF 108 N 108 Pin (109-216) 10 amp 250 volt (crimp)</p>	 
<p>CXM 4 / 8 4 pin 80 amp 690 v + 8 pin 16a 400 v</p>		<p>CXF 4 / 8 4 pin 80 amp 690 v + 8 pin 16a 400 v</p>	
<p>CXM 6 / 6 6 Pin 100 amp 690volt + 6 pin 16amp 400volt</p>		<p>CXF 6 / 6 6 Pin 100 amp 690volt + 6 pin 16amp 400volt</p>	
<p>CDSHM 42 x 2 (inserts) 42 Pin 10 amp 400 volt (Squich)</p>		<p>CDSHF 42 x 2 (inserts) 42 Pin 10 amp 400 volt (Squich)</p>	

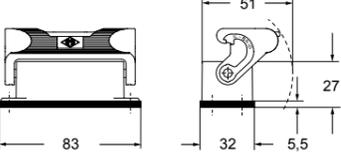
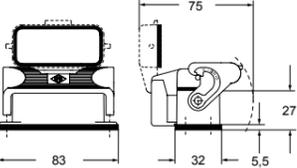
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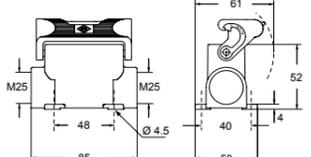
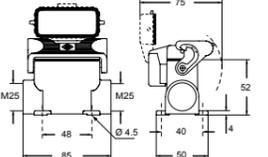


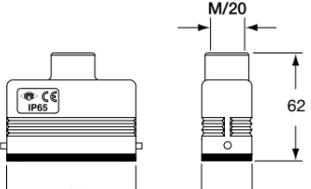
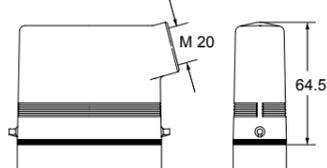
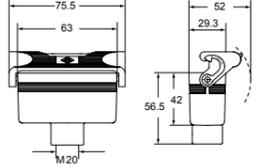


CZ-MZ Enclosures

Size 49.16

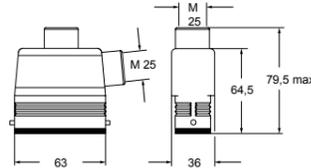
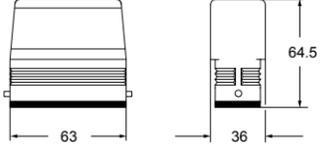
CZI 15 L	CZI 15 LS
 	 

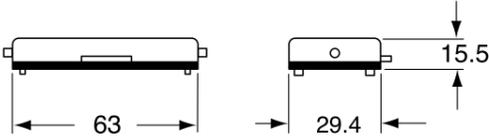
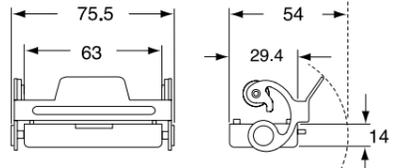
MZP 15 L225	MZP 15 LS225
 	 

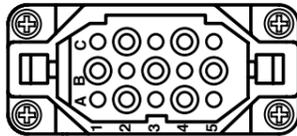
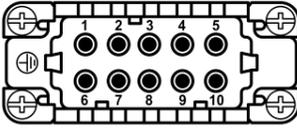
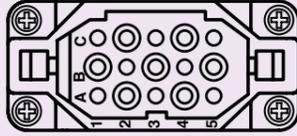
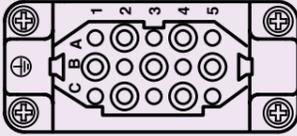
MZV 15 L20	MZO 15 L20	MZV 15 LG20
 	 	 

CZ-MZ Enclosures

Size 49.16

MZAV 15 L25	MZA0 15 L25
 	 

CZC 15 L	CZC 15 LG
 	 

Male Inserts		Female Inserts	
CDAM 10 10 Pin 16 amp 400 volt		CDAF 10 10 Pin 16 amp 400 volt	
CDM 15 15 Pin 10 amp 250 volt (crimp)		CDF 15 15 Pin 10 amp 250 volt (crimp)	

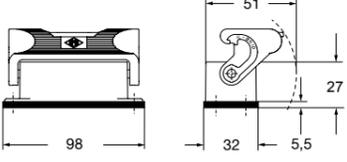
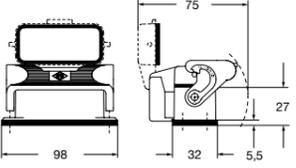
All dimensions in mm. For crimp pins refer to page 367.

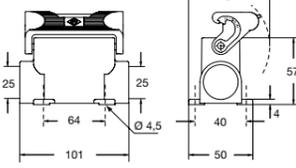
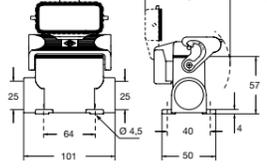


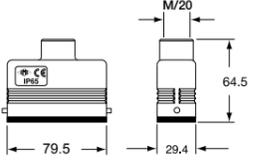
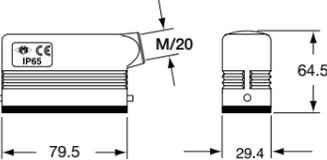
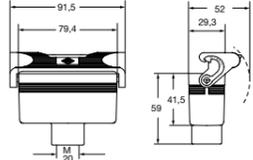


CZ-MZ Enclosures

Size 66.16

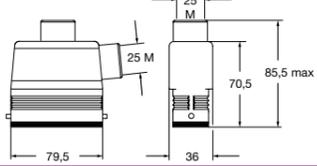
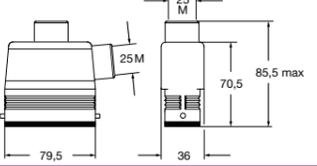
CZI 25 L	CZI 25 LS
 	 

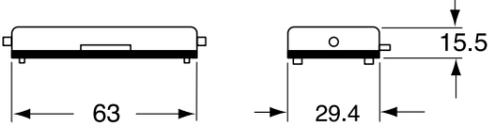
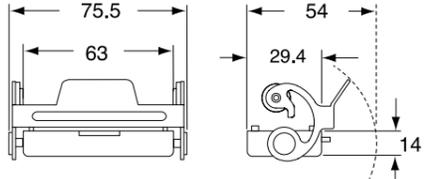
MZAP 25 L225	MZAP 25 LS225
 	 

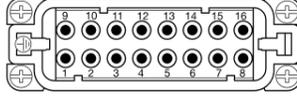
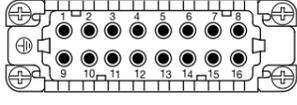
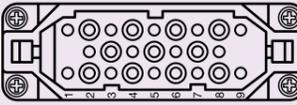
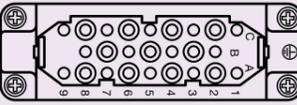
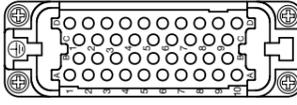
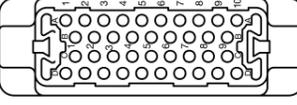
MZV 25 L20	MZO 25 L20	MZV 25 LG20
 	 	 

CZ-MZ Enclosures

Size 66.16

MZAV 25 L25	MZA0 25 L25
 	 

CZC 25 L	CZC 25 LG
 	 

Male Inserts		Female Inserts	
CDAM 16 16 Pin 16 amp 400 volt		CDAF 16 16 Pin 16 amp 400 volt	
CDM 25 25 Pin 10 amp 250 volt (crimp)		CDF 25 25 Pin 10 amp 250 volt (crimp)	
CDDM 38 38 Pin 10 amp 250 volt (crimp)		CDDF 38 38 Pin 10 amp 250 volt (crimp)	

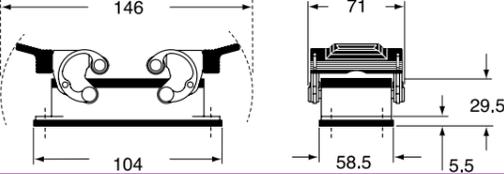
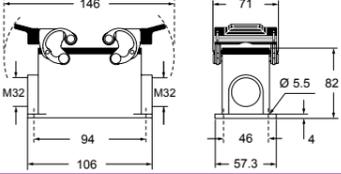
All dimensions in mm. For crimp pins refer to page 367.

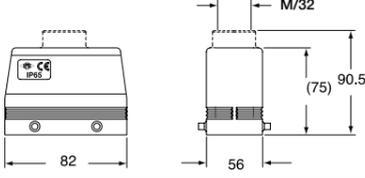
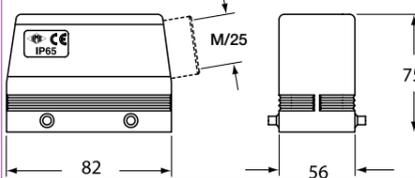
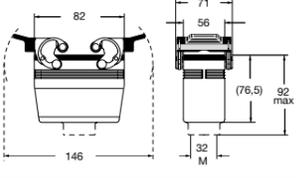


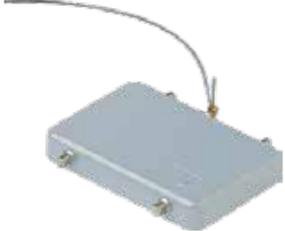
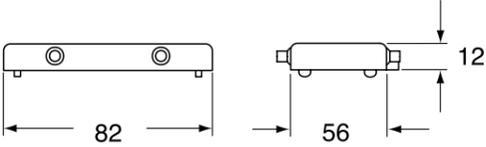
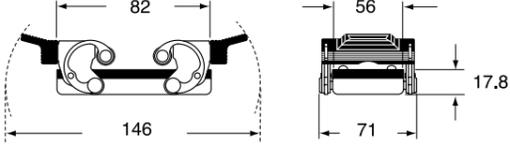


CH-MH-MA Enclosures

Size 66.40

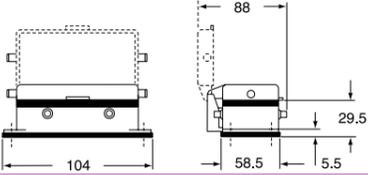
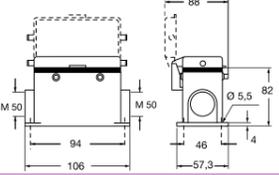
CHI 50	MHP 50.232
 	 

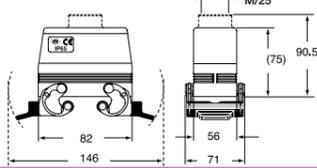
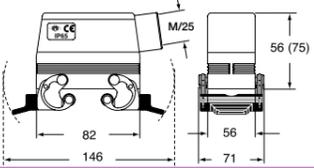
MAV 50.32 (high construction)	MHO 50.25	MAV 50 G32
 	 	 

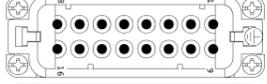
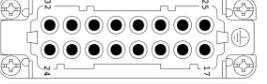
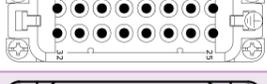
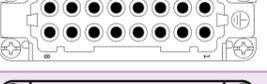
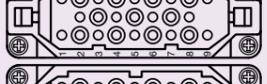
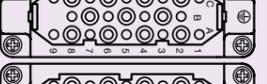
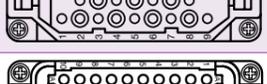
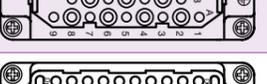
CHC 50	CHC 50 G
 	 

CH-MH-MA Enclosures

Size 66.40

CHI 50 CS	MHP 50 CS232
 	 

MAV 50 X25	MHO 50 X25
 	 

Male Inserts		Female Inserts	
CDAM 16 16 Pin (1-16) 16 amp 400 volt		CDAF 16 16 Pin (1-16) 16 amp 400 volt	
CDAM 16 N 16 Pin (17-32) 16 amp 400 volt		CDAF 16 N 16 Pin (17-32) 16 amp 400 volt	
CDM 25 x 2 (inserts) 50 Pin 10 amp 250 volt (crimp)		CDF 25 x 2 (inserts) 50 Pin 10 amp 250 volt (crimp)	
CDDM 38 x 2 (inserts) 76 Pin 10 amp 250 volt (crimp)		CDDF 38 x 2 (inserts) 76 Pin 10 amp 250 volt (crimp)	

All dimensions in mm. For crimp pins refer to page 367.





CK-MK Plastic Enclosures

CK 03 I	CK 03 IA	MK IAP20

MK V20	MK V25	MK VA20

MK VG20	MK VG25

CK-MK Plastic Enclosures

CK 03 C for female inserts	CK 03 CA for male inserts	CK 03 CX for female inserts	CK 03 CXA for male inserts

CKR 65	CKR 65 D
gasket & screw kit for IP66/IP67/IP69	
gasket & screw kit for IP66/IP67/IP69 only for CD07/08 inserts	

Male Inserts		Female Inserts	
CKM 03 3pin & Earth 10 amp 250 volt		CKF 03 3 pin & Earth 10 amp 250 volt	
CKM 04 4pin & Earth 10 amp 250 volt		CKF 04 4 pin & Earth 10 amp 250 volt	
CDM 07 7pin & Earth 10 amp 250 volt (crimp)		CDF 07 7pin & Earth 10 amp 250 volt (crimp)	
CDM 08 8pin 10 amp 50 volt (crimp)		CDF 08 8 pin 10 amp 50 volt (crimp)	
CQM 05 5 pin & Earth 16 amp 400 volt (crimp)		CQF 05 5 pin & Earth 16 amp 400 volt (crimp)	
CQM 12 12 Pin 10 amp 400 volt (crimp)		CQF 12 12 Pin 10 amp 400 volt (crimp)	
CQM 21 21 Pin 6.5 amp 50 volt (crimp)		CQF 21 21 Pin 6.5 amp 50 volt (crimp)	
CQ4M 02 2 Pin 40 amp 400 volt (crimp)		CQ4F 02 2 Pin 40 amp 400 volt (crimp)	

All dimensions in mm. For crimp pins refer to page 367.





CK-MK Metal Enclosures

Size 21.21

CKAX 03 I	CKAX 03 ILS	CKAX 03 IA	MKAX IAP20

MKA V20	MKA V25	MKA VA20

MKAX VG20	MKAX VG25

CK-MK Metal Enclosures

Size 21.21

CKA 03 C for female inserts	CKA 03 CA for male inserts	CKAX 03 CX for female inserts	CKAX 03 CXA for male inserts

CKR 65			
gasket & screw kit for IP66/IP67/IP69			
Male Inserts		Female Inserts	
CKM 03 3pin & Earth 10 amp 250 volt		CKF 03 3 pin & Earth 10 amp 250 volt	
CKM 04 4pin & Earth 10 amp 250 volt		CKF 04 4 pin & Earth 10 amp 250 volt	
CDM 08 8pin 10 amp 50 volt (crimp)		CDF 08 8 pin 10 amp 50 volt (crimp)	
CQM 05 5 pin & Earth 16 amp 400 volt (crimp)		CQF 05 5 pin & Earth 16 amp 400 volt (crimp)	
CQM 12 12 Pin 10 amp 400 volt (crimp)		CQF 12 12 Pin 10 amp 400 volt (crimp)	
CQM 21 21 Pin 6.5 amp 50 volt (crimp)		CQF 21 21 Pin 6.5 amp 50 volt (crimp)	
CQ4M 02 2 Pin 40 amp 400 volt (crimp)		CQ4F 02 2 Pin 40 amp 400 volt (crimp)	

All dimensions in mm. For crimp pins refer to page 367.

5

5





Thermoplastic enclosures

Size 32.13

CQ 08 I	CQ 08 IA	CQ 08 IAP

CQ 08 V	CQ 08 VA	MQ 08 V0225

CQ 08 VG	CQ 08 C & CQ 08 CA	CRQ 16 & CRQ 21

Thermoplastic enclosures size "32.13"

For use with all size "32.13" connector inserts.

Characteristics of materials for CQ - MQ series.

In self-extinguishing grey RAL 7035 or jet black RAL 9005 thermoplastic material;
gaskets in anti-aging, oil-resistant, grease-resistant and fuel-resistant NBR vinyl nitrile elastomer;
with single-block locking lever in self-extinguishing thermoplastic material.



Male Inserts		Female Inserts	
CQM 04/2 4 Pin 40 amp + 2 Pin 10 amp (crimp)		CQF 04/2 4 Pin 40 amp + 2 Pin 10 amp (crimp)	
CQM 08 8 Pin 16 amp 500 volt (crimp)		CQF 08 8 Pin 16 amp 500 volt (crimp)	
CQM 17 17 Pin 10 amp 160 volt (crimp)		CQF 17 17 Pin 10 amp 160 volt (crimp)	

All dimensions in mm. For crimp pins refer to page 367





MIXO Modular Units - General Overview

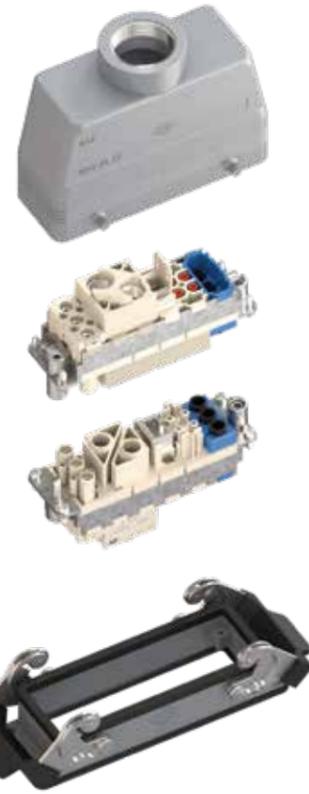
The MIXO series is a system of modular units for special applications that uses the traditional ILMA enclosures.

Each enclosure can house different types of connections such as: electric signals and contacts for the conduction of compressed air and liquids with pressure values of up to 8 bars.

The inserts are arranged side by side to form a single **compact block** which is inserted into metallic frames with mandatory housing. Once the modules have been inserted and locked with the special tabs, the connector can then be inserted into the enclosure.

The modular system makes it easy to access a series of contacts inserted in the frame (e.g., for substitution, check or the addition of signals with new inserts for needs not foreseen during the initial installation) without having to disassemble the entire connector.

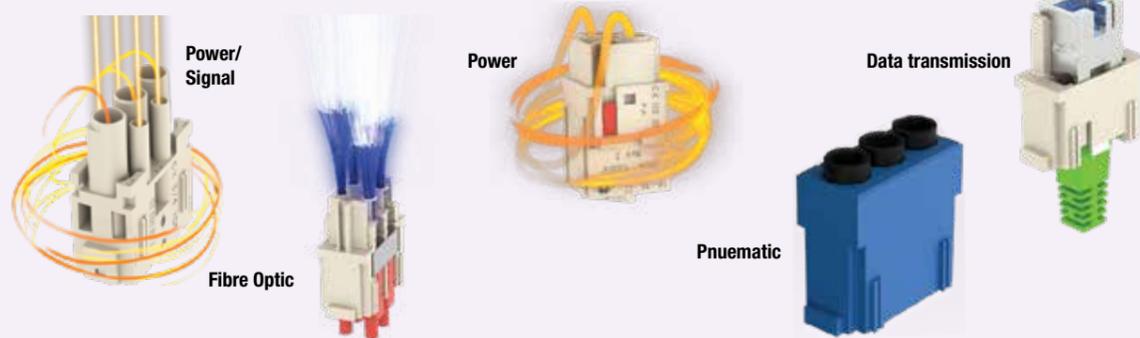
ILMA Mixo series of modular connectors is an open connector system that provides versatile configuration to the users individual requirements giving the **freedom to assemble a customised connector** from a range of optical signals or air. The module range is continuously expanded allowing new configurations to be realised.



Frames	One or two-lever metallic enclosures
CX 01 T	size "49.16"
CX 02 TM/TF	size "44.27"
CX 03 TM/TF	size "57.27"
CX 04 TM/TF	size "77.27"
CX 06 TM/TF	size "104.27"
CX 04 TM/TF (x 2)	size "77.62"
CX 06 TM/TF (x 2)	size "104.62"



Mixo enclosures provide the possibility of innumerable applications.

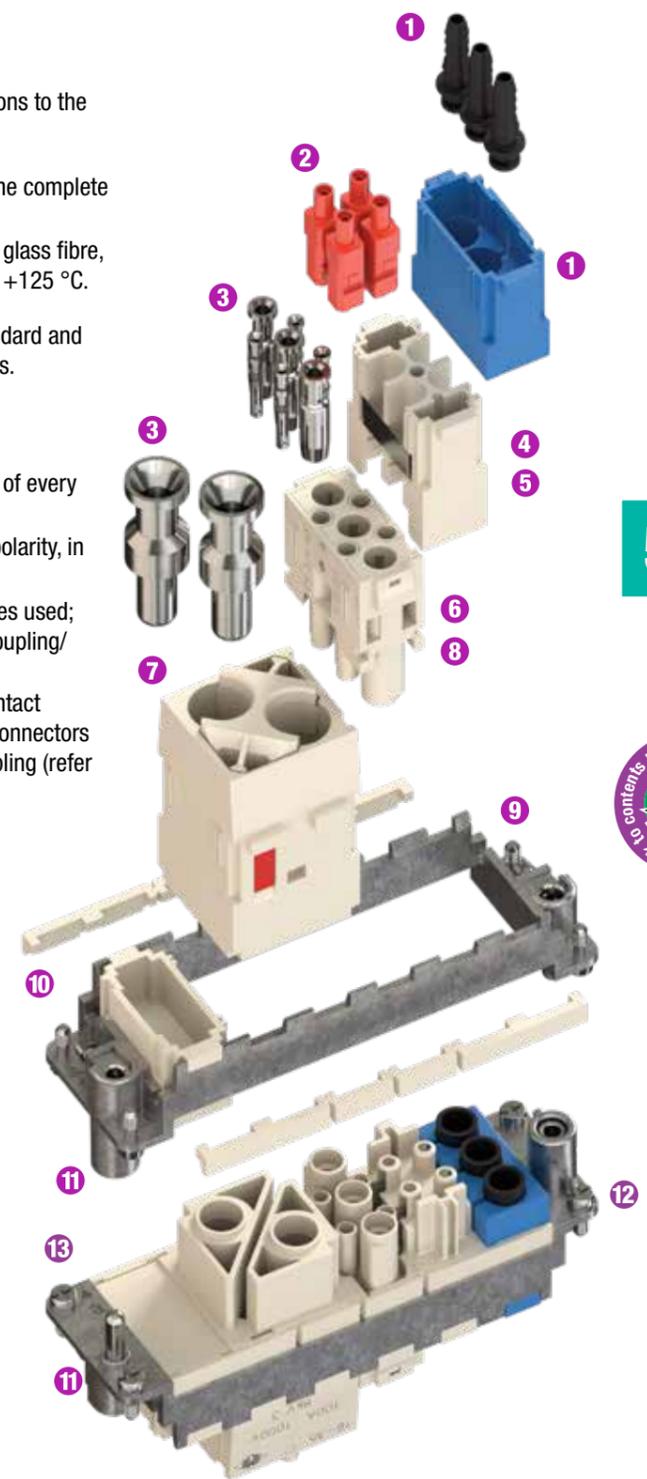


Mixo Modular Units - Technical Characteristics

- 1 Pneumatic contacts in plastic with hose barb connection.
- 2 Fibre optic contacts SC type.
- 3 Electric contacts in silver-plated or gold-plated brass with connections to the conductors via crimping, spring clamp or axial screw.
- 4 Modular inserts of identical size with insertion system for forming the complete module and frame lock tab.
- 5 Inserts in self-extinguishing thermoplastic material, reinforced with glass fibre, UL 94V-0 approved, with a working temperature range of -40 °C to +125 °C.
- 6 Inserts in conformance with the requirements of the EN 61984 standard and certified and marked with the UL, CSA, CQC, DNV-GL, BV, EAC marks.
- 7 Inserts with patented "swallowtails" to prevent incorrect coupling.
- 8 Position of contacts identified with numbers or codes on both sides of every insert.
- 9 Male/female module carrier frames with mandatory housings and polarity, in die-cast zinc alloy.
- 10 Module lock tab, may be divided according to the number of modules used; it guarantees a perfect stability of the modules during wiring and coupling/uncoupling of the connectors.
- 11 Asymmetric protective earth contacts (two per frame) with wide contact surface to prevent incorrect coupling; when two or more identical connectors of the MIXO series are used, coded pins may prevent incorrect coupling (refer to pages 684, 685 and 689).
- 12 Captive frame fastening screws, with spring washer.
- 13 Dummy module for unused frame slots.

ADVANTAGES

- Easy and user-friendly assembly of the complete multi-module insert before fixing it on the relevant sized metal frame;
- use of proprietary ILME technology providing each module with "swallowtails" (lateral keys/keyways), for reciprocal locking of modules and overall assembly of the insert into rigid (non hinged) frames with snap-in locking strips;
- faster and easier assembly compared with competitor solutions (easier handling of modules as a complete block than e.g. 6 independent parts);
- intermateability at "complete connector" (modules in frame) with other industry standard products;
- robust and long lasting prevailing crimp connection technology (largely preferred over screw type technology in high vibration and shock environments).





MIXO Modular Units

12 Pole 10 amp											
	CX 12 DF	CX 12 DM	<table border="1"> <tr><th colspan="2">Crimp Pins To Suit</th></tr> <tr><td>Female</td><td>CDFA</td></tr> <tr><td>Male</td><td>CDMA</td></tr> <tr><td colspan="2">See Page 367</td></tr> </table>	Crimp Pins To Suit		Female	CDFA	Male	CDMA	See Page 367	
	Crimp Pins To Suit										
Female	CDFA										
Male	CDMA										
See Page 367											
17 Pole 10 amp											
	CX 17 DF	CX 17 DM	<table border="1"> <tr><th colspan="2">Crimp Pins To Suit</th></tr> <tr><td>Female</td><td>CDFA</td></tr> <tr><td>Male</td><td>CDMA</td></tr> <tr><td colspan="2">See Page 367</td></tr> </table>	Crimp Pins To Suit		Female	CDFA	Male	CDMA	See Page 367	
	Crimp Pins To Suit										
Female	CDFA										
Male	CDMA										
See Page 367											
5 Pole 16 amp											
	CX 05 SF	CX 05 SM	<p>Inserts come with spring loaded contacts</p>								
6 Pole 16 amp											
	CX 06 CF	CX 06 CM	<table border="1"> <tr><th colspan="2">Crimp Pins To Suit</th></tr> <tr><td>Female</td><td>CCFA</td></tr> <tr><td>Male</td><td>CCMA</td></tr> <tr><td colspan="2">See Page 367</td></tr> </table>	Crimp Pins To Suit		Female	CCFA	Male	CCMA	See Page 367	
	Crimp Pins To Suit										
Female	CCFA										
Male	CCMA										
See Page 367											
8 Pole 16 amp											
	CX 08 CF	CX 08 CM	<table border="1"> <tr><th colspan="2">Crimp Pins To Suit</th></tr> <tr><td>Female</td><td>CCFA</td></tr> <tr><td>Male</td><td>CCMA</td></tr> <tr><td colspan="2">See Page 367</td></tr> </table>	Crimp Pins To Suit		Female	CCFA	Male	CCMA	See Page 367	
	Crimp Pins To Suit										
Female	CCFA										
Male	CCMA										
See Page 367											
20 Pole 16 amp											
	CX 20 CF	CX 20 CM	<table border="1"> <tr><th colspan="2">Crimp Pins To Suit</th></tr> <tr><td>Female</td><td>CCFA</td></tr> <tr><td>Male</td><td>CCMA</td></tr> <tr><td colspan="2">See Page 367</td></tr> </table>	Crimp Pins To Suit		Female	CCFA	Male	CCMA	See Page 367	
	Crimp Pins To Suit										
Female	CCFA										
Male	CCMA										
See Page 367											
2 Pole 100 amp											
	CX 02 GF	CX 02 GM	<table border="1"> <tr><th colspan="2">Crimp Pins To Suit</th></tr> <tr><td>Female</td><td>CGFA</td></tr> <tr><td>Male</td><td>CGMA</td></tr> <tr><td colspan="2">See Page 367</td></tr> </table>	Crimp Pins To Suit		Female	CGFA	Male	CGMA	See Page 367	
	Crimp Pins To Suit										
Female	CGFA										
Male	CGMA										
See Page 367											

There are more combinations of modular units available.

3 Pole 40 amp											
	CX 03 4F	CX 03 4M	<table border="1"> <tr><th colspan="2">Crimp Pins To Suit</th></tr> <tr><td>Female</td><td>CXFA</td></tr> <tr><td>Male</td><td>CXMA</td></tr> <tr><td colspan="2">See Page 367</td></tr> </table>	Crimp Pins To Suit		Female	CXFA	Male	CXMA	See Page 367	
	Crimp Pins To Suit										
Female	CXFA										
Male	CXMA										
See Page 367											
3 Pole 40 amp + 4 pole 10 amp											
	CX 3/4 XDF	CX 3/4 XDM	<table border="1"> <tr><th colspan="2">Crimp Pins To Suit</th></tr> <tr><td>Female</td><td>CXFA</td></tr> <tr><td>Male</td><td>CXMA</td></tr> <tr><td colspan="2">See Page 367</td></tr> </table>	Crimp Pins To Suit		Female	CXFA	Male	CXMA	See Page 367	
	Crimp Pins To Suit										
Female	CXFA										
Male	CXMA										
See Page 367											
4 Pole 40 amp											
	CX 04 XF	CX 04 XM	<table border="1"> <tr><th colspan="2">Crimp Pins To Suit</th></tr> <tr><td>Female</td><td>CXFA</td></tr> <tr><td>Male</td><td>CXMA</td></tr> <tr><td colspan="2">See Page 367</td></tr> </table>	Crimp Pins To Suit		Female	CXFA	Male	CXMA	See Page 367	
	Crimp Pins To Suit										
Female	CXFA										
Male	CXMA										
See Page 367											
2 Pole 70 amp											
	CX 02 7F	CX 02 7M	<table border="1"> <tr><th colspan="2">Crimp Pins To Suit</th></tr> <tr><td>Female</td><td>CX7FA</td></tr> <tr><td>Male</td><td>CX7MA</td></tr> <tr><td colspan="2">See Page 367</td></tr> </table>	Crimp Pins To Suit		Female	CX7FA	Male	CX7MA	See Page 367	
	Crimp Pins To Suit										
Female	CX7FA										
Male	CX7MA										
See Page 367											
1 Pole 100 amp											
	CX 01 GF	CX 01 GM	<table border="1"> <tr><th colspan="2">Crimp Pins To Suit</th></tr> <tr><td>Female</td><td>CGFA</td></tr> <tr><td>Male</td><td>CGMA</td></tr> <tr><td colspan="2">See Page 367</td></tr> </table>	Crimp Pins To Suit		Female	CGFA	Male	CGMA	See Page 367	
	Crimp Pins To Suit										
Female	CGFA										
Male	CGMA										
See Page 367											
1 Pole 200 amp											
	CX 01 YF	CX 01 YM	<table border="1"> <tr><th colspan="2">Crimp Pins To Suit</th></tr> <tr><td>Female</td><td>CYFA</td></tr> <tr><td>Male</td><td>CYMA</td></tr> <tr><td colspan="2">See Page 367</td></tr> </table>	Crimp Pins To Suit		Female	CYFA	Male	CYMA	See Page 367	
	Crimp Pins To Suit										
Female	CYFA										
Male	CYMA										
See Page 367											
Dummy Module											
	CX FM		<table border="1"> <tr><td colspan="2">CX FM</td></tr> </table>	CX FM							
	CX FM										





MIXO Modular Units

4 pole + shield 10 amp BUS Connector																																		
	CX 02 BF 	CX 02 BM 																																
	CX 04 BF 	CX 04 BM 																																
	Crimp Pins To Suit <table border="1"> <tr> <td>Female</td> <td>CDFA</td> </tr> <tr> <td>Male</td> <td>CDMA</td> </tr> <tr> <td>See Page ???</td> <td></td> </tr> </table>		Female	CDFA	Male	CDMA	See Page ???																											
Female	CDFA																																	
Male	CDMA																																	
See Page ???																																		
RJ 45 8 Data Contacts + 4 x 10 amp contacts																																		
	CX 01 JF 	CX 01 JM 																																
	Crimp Pins To Suit <table border="1"> <tr> <td>Female</td> <td>CDFA</td> </tr> <tr> <td>Male</td> <td>CDMA</td> </tr> <tr> <td>See Page ???</td> <td></td> </tr> </table>		Female	CDFA	Male	CDMA	See Page ???																											
Female	CDFA																																	
Male	CDMA																																	
See Page ???																																		
	CX 8 JF 	CX 8 JM 																																
Pneumatic Contacts Modules																																		
	CX 03 P 	CX 02 P 																																
Pneumatic Contacts																																		
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Crimp Pins

Male Pins 10amp Silver Plated				Female Pins 10amp Silver Plated					
CDMA	0.3	0.14 - 0.37 mm ²		CDFA	0.3	0.14 - 0.37 mm ²			
CDMA	0.5	0.5 mm ²		CDFA	0.5	0.5 mm ²			
CDMA	0.7	0.75mm ²		CDFA	0.7	0.75mm ²			
CDMA	1.0	1.0mm ²		CDFA	1.0	1.0mm ²			
CDMA	1.5	1.5mm ²		CDFA	1.5	1.5mm ²			
CDMA	2.5	2.5mm ²	CDFA	2.5	2.5mm ²				
Male Pins 16amp Silver Plated				Female Pins 16amp Silver Plated					
CCMA	0.5	0.5 mm ²		CCFA	0.5	0.5 mm ²			
CCMA	0.7	0.75mm ²		CCFA	0.7	0.75mm ²			
CCMA	1.0	1.0mm ²		CCFA	1.0	1.0mm ²			
CCMA	1.5	1.5mm ²		CCFA	1.5	1.5mm ²			
CCMA	2.5	2.5mm ²		CCFA	2.5	2.5mm ²			
CCMA	3.0	3mm ²	CCFA	3.0	3mm ²				
CCMA	4.0	4mm ²	CCFA	4.0	4mm ²				
Male Pins 40amp Silver Plated				Female Pins 40amp Silver Plated					
CXMA	1.5	1.5mm ²		CXFA	1.5	1.5mm ²			
CXMA	2.5	2.5mm ²		CXFA	2.5	2.5mm ²			
CXMA	4.0	4mm ²		CXFA	4.0	4mm ²			
CXMA	6.0	6mm ²		CXFA	6.0	6mm ²			
Male Pins 70amp Silver Plated				Female Pins 70amp Silver Plated					
CX7MA	10	10mm ²		CX7FA	10	10mm ²			
CX7MA	16	16mm ²		CX7FA	16	16mm ²			
CX7MA	25	25mm ²		CX7FA	25	25mm ²			
Male Pins 100amp Silver Plated				Female Pins 100amp Silver Plated					
CGMA	10	10mm ²		CGFA	10	10mm ²			
CGMA	16	16mm ²		CGFA	16	16mm ²			
CGMA	25	25mm ²		CGFA	25	25mm ²			
CGMA	35	35mm ²		CGFA	35	35mm ²			
Male Pins 200amp Silver Plated				Female Pins 200amp Silver Plated					
CYMA	16	16mm ²		CYFA	16	16mm ²			
CYMA	25	25mm ²		CYFA	25	25mm ²			
CYMA	35	35mm ²		CYFA	35	35mm ²			
CYMA	50	50mm ²		CYFA	50	50mm ²			
CYMA	70	70mm ²		CYFA	70	70mm ²			



Crimp Tools & Accessories for Crimp Contacts

CCPZ TP	CCPZ RN	CCINA
<p>Crimp Tool for 10 amp and 16 amp contacts</p> <p>Front view showing incorporated crimping dies</p> <p>Crimp Tool for series CD (10A) & CC (16A) contacts. Crimping dies and turret head are included.</p> <p>Insertion tool Part No. CCINA</p> <p>Removal tools 10amp contacts Part No. CCES 16 amp contacts Part No. CQES</p>	<p>Crimp Tool for 10 amp, 16 amp & 40 amp contacts</p> <p>Front view</p> <p>Crimp Tool for series CD (10A), CC (16A) & CX (40A) contacts. Crimping dies and turret head are included.</p> <p>Insertion tool Part No. CCINA</p> <p>Removal tools 10amp contacts Part No. CCES 16 amp contacts Part No. CQES 40 amp contacts Part No. CXES</p>	<p>Insertion Tool</p> <p>CCES</p> <p>Removal Tool for 10 amp contacts</p> <p>CQES</p> <p>Removal Tool for 16 amp contacts</p> <p>CXES</p> <p>Removal Tool for 40 amp contacts</p>

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Coding Pins

	CR 20	CRM & CRF
<p>CR20 single coding pins CRM/CRF double coding pins</p> <p>Each series of connector inserts is made in such a way as to make incorrect coupling between inserts of different series impossible.</p> <p>When a number of identical connectors with different functions are mounted closely together these must be selected in such a way as to prevent the coupling of a mobile part on a non-corresponding fixed part and consequent damage and breakdown.</p> <p>Code pins are supplied to apply in place of the normal insert fastening screws (see example below).</p> <p>In this way the coupling of identical connectors is assured. The combination of code pins makes it possible to obtain a high number of selective couplings.</p>	<p>Single coding pins for 6 codings</p> <p>Part No. CR 20 Stainless Steel Part No. CR 20 CX Stainless Steel (for Mixo inserts only)</p> <p>CR 20</p> <p>CR 20 CX</p> <p>Application with single insert</p> <p>Also suitable for applications with double inserts</p>	<p>Double coding and guide pins for 16 codings</p> <p>Part No. CRM Male Pin Stainless Steel Part No. CRF Female Pin Stainless Steel</p> <p>Part No. CRM CX Male Pin Stainless Steel Part No. CRF CX Female Pin Stainless Steel (for Mixo inserts only)</p> <p>CRM</p> <p>CRF</p> <p>CRM CX</p> <p>CRF CX</p> <p>Application with single insert</p> <p>Also suitable for applications with double inserts</p>

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MJZA	CJZA 8I	CYG 8 JFA
<p>MJZA 4 V metal enclosure and insert with 4 data contacts</p> <p>MJZA 8 V metal enclosure and insert with 8 data contacts</p>	<p>CJZA 8 I metal enclosure and insert with 8 data contacts</p>	<p>CYG 8 JFA RJ 45 coupler jack in housings, 8 data contacts</p>
CX & CJ	CWKA	CJK 8M
<p>CX 8 JF RJ 45 coupler jack with 8 data contacts</p> <p>CX 4 JM RJ 45 plug with 4 data contacts</p> <p>CX 8 JM RJ 45 plug with 8 data contacts</p> <p>CJ KF RJ 45 adapter for female connector</p> <p>CJ KM RJ 45 adapter for male connector</p>	<p>CWKA 2 J2M8 RJ 45 2 meter patch cord</p> <p>CWKA 5 J2M8 RJ 45 5 meter patch cord</p> <p>CWKA 10 J2M8 RJ 45 10 meter patch cord</p>	<p>CJK 8M universal patch cord adapter.</p> <p>The adapter insert can host most of RJ 45 patch cord plugs available on the market, it can quickly and easily make captive the RJ 45 plugs without any disassembly of the patch cord.</p>

Series specifically developed for industrial applications where the ambient temperatures are particularly harsh (from -40°C to +180°C).

SUM-UP OF MATERIALS USED

- Enclosure body made of die cast aluminium alloy
- Chromate conversion coating, RoHS 2 conform, on the enclosure body die casts
- Coated with special high temperatures resistant, red coloured thermosetting powder.
- Flange and interface sealing gaskets (as applicable) in FPK, anti-aging heat resistant fluoroelastomer Locking device with lever(s), springs and pegs in stainless steel
- Single-block locking lever handles in stainless steel (for "21.21" sized CKA...R/ MKA...R, "44.16" sized CZ...R and MZ...R, and "104.62" sized CH...R 48 ... and, MH...R 48 ... versions)
- Locking lever handles in die-cast aluminium alloy with the same special coating as the enclosure body (for CH...R 10, 16, 24 and MH...R 10, 16, 24 versions)



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“T-Type” thermo plastic enclosures

Alongside the wide range of traditional metal enclosures for ILME multipole connectors, there is now available a new series of enclosures in self-extinguishing thermoplastic material in the most common sizes of “44.27”, “57.27”, “77.27” and “104.27”. Quality and low cost are the main features of these enclosures. Valuable characteristics of these new enclosures:

- Cost savings of up to 50% (compared to metal housings)
- Up to 70% lighter
- Structurally solid & mechanically robust
- Chemical resistant

1. Construction

These enclosures are structurally solid and mechanically robust, due to their increased thickness. They are particularly resistant to the main pollutants present in industrial environments. The lever enclosure pegs are built into the enclosures. The thermoplastic material used is RAL 7012 dark grey colour and UL 94V-2 grade self extinguishing.

2. Gaskets

Gaskets have been produced by means of the FIPFG technology (Formed-In-Place-Foam-Gasket). They have therefore been incorporated in the base flange on bulkhead housings for easier installation.

3. Levers

The locking levers have been produced in self-extinguishable thermoplastic material coloured grey RAL 7001.

4. Dimensions

The internal dimensions allow mounting of all connector inserts in their relevant sizes. The external dimensions of the bulkhead-mount and of the surface mount housings are similar to those of the corresponding metal housings; hole fixing centres are unchanged.

5. Cable entries

The housings and hoods cable entries are available with metric thread, respectively:

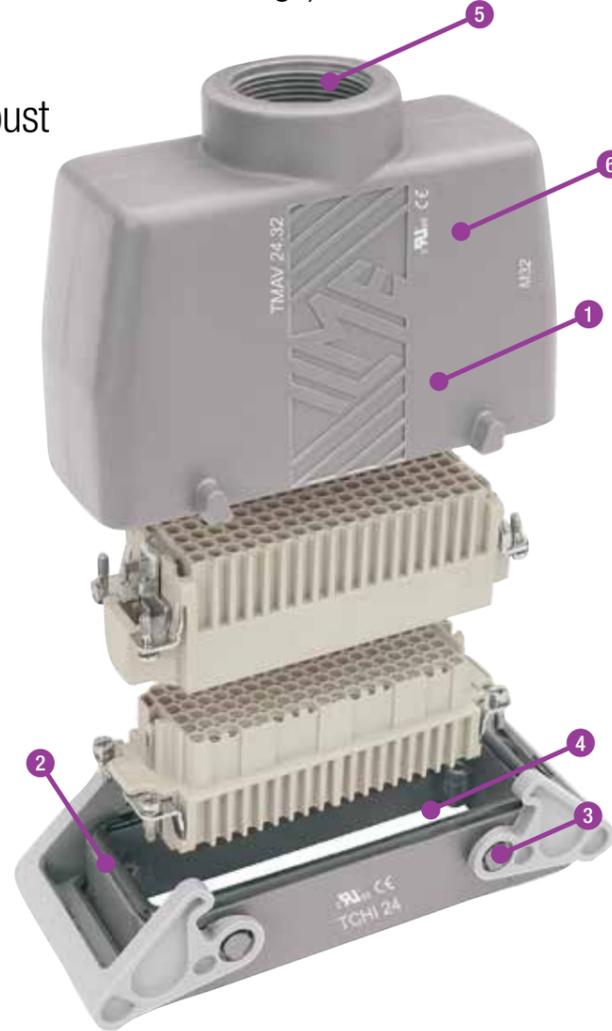
- M25 or M32 for smaller sizes “44.27” and “57.27”.
- M32 or M40 for larger sizes “77.27” and “104.27”.

6. Marking

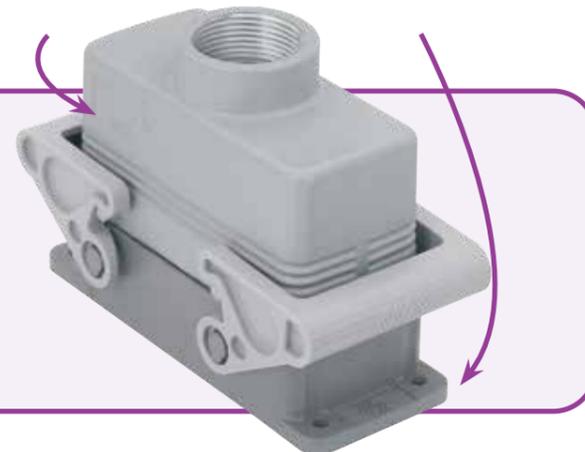
These enclosures carry CE marking as they are accessories for electrical connectors with rated operating voltage within the scope of the 2006/95/EC Low Voltage Directive.

Limitations

With respect to enclosures in metal alloy, ILME insulating enclosures have some limitations of use in combination with particular accessories: Please contact your local Treotham office to confirm compatibility of current inserts and housings with T-Type enclosures.



Metal Hood with Plastic Base



Interchangeability with other ILME series.

TCH series housings can be coupled with metal hoods; insulating hoods can be coupled with “V-Type” metal housings. The hood “57.27”, “77.27” and “104.27” can be mounted on COB TCQ and COB BC frames simply by replacing the supplied levers with COB L levers (to be purchased in addition).

Hygienic

T-TYPE/H & T-TYPE/C

The evolution of T-TYPE insulating enclosures meets food and beverage requirements



T-TYPE/H - PRODUCTION LINES APPLICATIONS SUM-UP

- Enclosures in thermoplastic material, dark grey RAL 7012 colour, with high thicknesses providing structural solidity and durability
- Sealing gaskets made by HNBR rubber formulated in accordance with FDA Guideline 21 CFR §177.2600
- Ambient temperature range: -40 °C / +70 °C



T-TYPE/C - LOW TEMPERATURE APPLICATIONS SUM-UP

- The Hygienic T-TYPE/C Series enclosures have been specifically designed for food and beverage ambient temperature as low as -50 °C (range: -50 °C / +70 °C)
- This version differs from the Hygienic T-TYPE/H one for the sealing gaskets made by in accordance with FDA Guideline 21 CFR §177.2600





W Type

ENCLOSURES for aggressive environments

A cornerstore against corrosion

Series W-TYPE connector enclosures for aggressive environments is specially designed for industrial applications where particularly aggressive external agents are present (e.g. salty environments, etc.).

They are distinguished by the jet black RAL 9005 colour and have the following characteristics:

- > **chromate conversion treatment of castings** RoHS 2 compliant, providing **50% improved corrosion in resistance in salt spray tests** (according to UNI EN ISO 9227) compared to the previous green coloured versions;
- > **thermosetting epoxy powder coating** (with improved resistance to chemicals compared to epoxy polyester of the standard enclosures series);
- > **FKM fluoroelastomer gaskets** (with improved resistance to chemicals and aging);
- > **ambient temperature limits from -40 °C to +125 °C.**



E -xtreme

E-Xtreme® series

ADVANTAGES

The protection is granted also in case of impact with stones and sand.

The materials are able to withstand UV radiations, a wide temperature range and harsh chemicals.

Their special patented protective coating assures a high level of protection against the corrosion even in case of long term exposure to salt mist.

Metal hoods and housings intended for extremely demanding environments, with special protective treatment under painting.

> 3.000 hours in salt spray tests



> IP66, IP67, IP69 degree of protection (EN 60529)

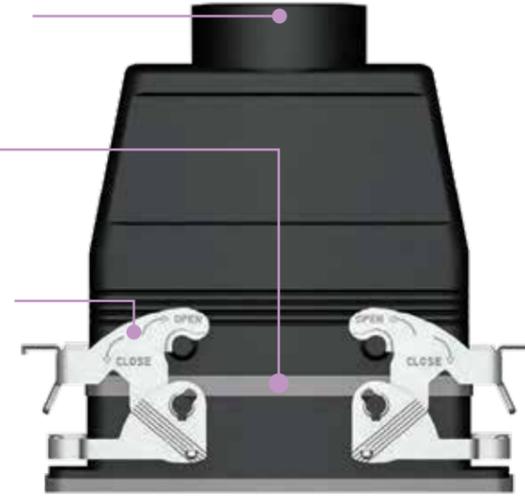
> corrosion-proof aluminium with a special coating under the powder painting colour RAL 7016 dark grey

> FKM gasket (-40 °C...+180 °C) or silicone gasket (-60 °C...+180 °C)

> V-TYPE lever or C-TYPE lever, hoods with moulded pegs or riveted stainless steel bolts

> V-TYPE lever or C-TYPE lever, hoods with moulded pegs or riveted stainless steel bolts

> durable protection against damage caused by stone chip, icing, salt mist, UV radiations and harsh gases



Icing



Very Low Temperatures



Salt Mist



Impact Resistant



UV Radiations



Chemical Resistant





EMC

The concept of **Electromagnetic Compatibility (EMC)** is the reversal in the positive sense of what was until recently known as **Electromagnetic Interference (EMI)**; **we have electromagnetic compatibility** between a device and the environment (including surrounding equipment) when there is no reciprocal electromagnetic interference or when this is within tolerable limits.

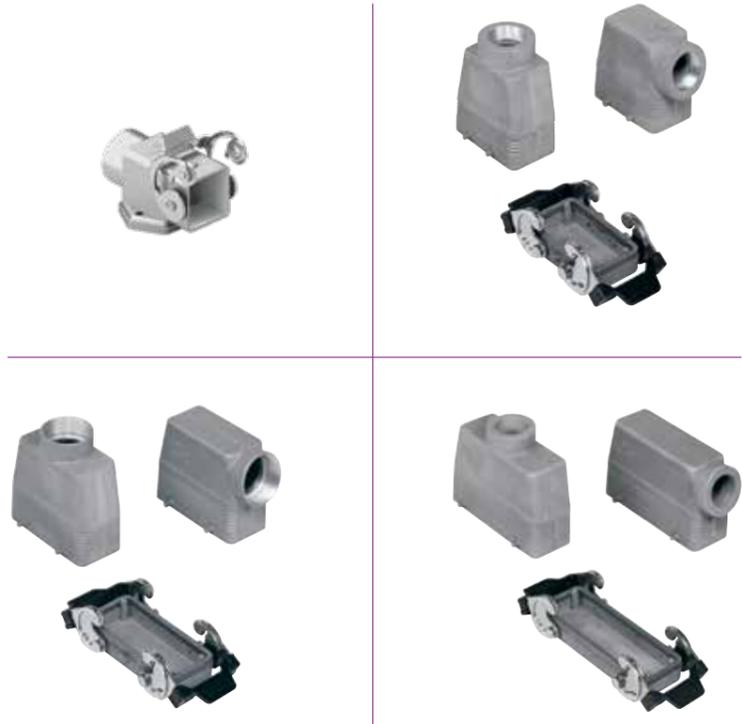
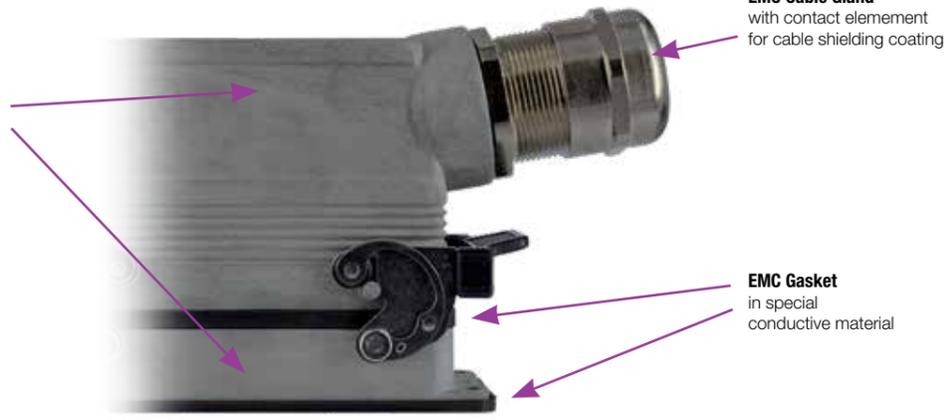
The enclosure surfaces are treated to make them extremely conductive while maintaining the necessary corrosion resistance. The bulkhead mounting housing has a special conductive gasket. For best results the surface underneath the gasket should be conductive. Since the use of this enclosure system presupposes the use of shielded cables, the hood should comprise a special cable gland with anchoring device for the cable shield.

EMC enclosures with conductive coating

EMC Cable Gland with contact element for cable shielding coating

EMC Gasket in special conductive material

EMC enclosures

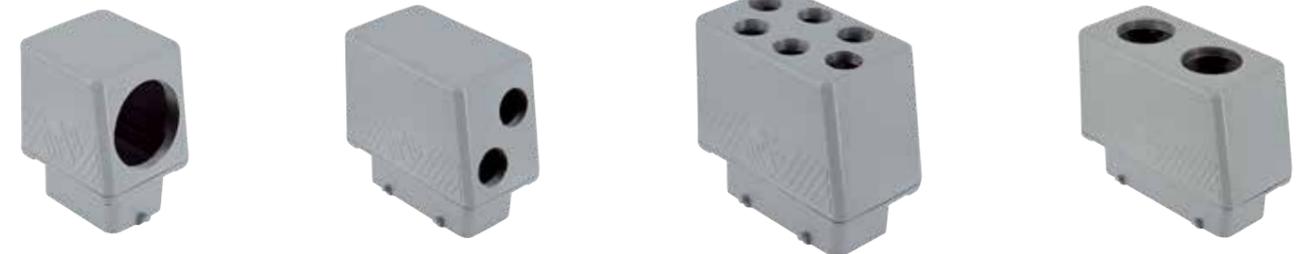


BIG

BIG Series, based on the wide-ranging experience achieved by ILME, introduces a significant **change in the design of hoods** and has been **specifically designed to meet the new requirements of the wiring market**. The enclosures **integrate the existing range** and **are ideal for installations with structured and complex wiring**.

Accurate design

The **large dimensions** of these innovative enclosures have been chosen to offer customers an **adequate space to store conductors**. The **width** of the new enclosures is **greater than that of previous versions**: 66 mm compared to the 43 mm for standard enclosures. The **height** of BIG enclosures has also been **increased to 100 mm** for sizes "44.27" and "57.27" (standard versions for high models: 70 and 72mm), **and to 110 mm** for sizes "77.27" and "104.27" (standard versions for high models: 76 mm).





Central Lever

Easy access for robotics

- > Series specifically designed for industrial applications with limited installation space.
- > These enclosures can be installed, placed side-by-side and handled in a single operation.
- > Furthermore, the lever's shape reduces the effort required to uncouple the inner fittings.

SUM-UP OF MATERIALS USED FOR CH..YC, CA..YC and MA..YC, CA..YX and MF..YX series

- > Made of die cast aluminium alloy
- > With epoxy-polyester powder coating
- > Gaskets in anti-aging, oil-resistant, grease-resistant and fuel-resistant vinyl nitrile elastomer
- > Locking device with single stainless steel lever



IP68

CGK/MGK and CG/MG series

- > The enclosures ensure the highest degree of protection from external interferences; more specifically, they protect people from accessing the hazardous components housed inside the enclosures

Scope of application

- > External interconnections in vehicles, in harsh environments and in humid areas and with sensitive interconnections requiring shielding from electromagnetic interference.
- > They are particularly suitable for the applications in the railway industry and any application requiring high resistance to pressure, impact and corrosion, with IP66/IP68/IP69 protection rating.
- > They also ensure a good shielding for electromagnetic compatibility.





Monopiece 19 Pin 25amp 400 Volt IP 67 with PG 29 cable gland entry



SLGD FFDR PG29 419AR



SLD FMD PG29 419AR

Monopiece 19 Pin 25amp 400 Volt IP 67 with PG 36 cable gland entry



SLGD FFDR PG36 419AR



SLD FMD PG36 419AR

SL61 19 Pin 25amp 400 Volt



SL D EF 419AR



SL D EME 419AR

SL61 37 Pin 7.5amp 175 Volt



SL FFDR 337P



SL FMD 337P

SL61 7 Pin 25amp 480 Volt



SL FFDR 37Y



SL FMD 37Y



SL EF 37Y

ILME

HEADERS



TAILS



LOOMS



Looms available in 4,5 & 6 way with either pvc or rubber cable

SOCAPEX

HEADERS



TAILS



LOOMS



Looms available in SL 61 OR Mono piece housings with either pvc or rubber cable





POWERLINE CONNECTORS

BACKGROUND

Keyed "L" slot single pole connectors have become widely adopted in a diverse range of applications and industries.

One of the main features of early designs was the mechanically keying of the connectors to prevent possible connection errors. i.e.

A Phase Line cannot be connected into Earth Line etc. It was evident that several enhancements to existing designs were possible to further improve the product but at the same time remaining intermateable.

TYPICAL APPLICATIONS

- Power Distribution
- Utilities
- Electric Vehicles
- Railway Equipment
- Military Field Power
- Mobile Generators
- Loadbanks
- Back-up Power Systems

POWERLINE FEATURES

- 500 Mating Cycles minimum.
- Intermateable with other versions.
- IP2X Finger Protected contacts.
- IP68 sealed when mated.
- Remote tool required to release mated connectors.
- For use with Electrical Power Cables.
- Heavy Duty Hand Grips.
- Clip retained contacts.
- No Dowel / Cotter pin required.
- Cable sizes from 25mm² to 300mm²
- Facilitate cables up to 37mm Ø.
- High Impact Insulators.
- Harmonised Colour Coding.
- CE Compliant.
- EN/ESI compliant Creepage and Clearance distances.
- Multi-louver contact system.
- Mechanically keyed to prevent connection errors.
- Permanent Marking
- Set Screw and Crimp contact versions.
- UL94 VO Flame Retardant.
- Field Assembly & Repair.
- No special tools required.
- Daisy Chain hook up system.

CLIP CONTACT RETENTION SYSTEM - Saves 50% assembly time



- 1 Position the contact keyway and insert into the rear of the insulator.



- 2 Push the cable/contact until the "clips" snap into position. You will hear the locking during this operation.



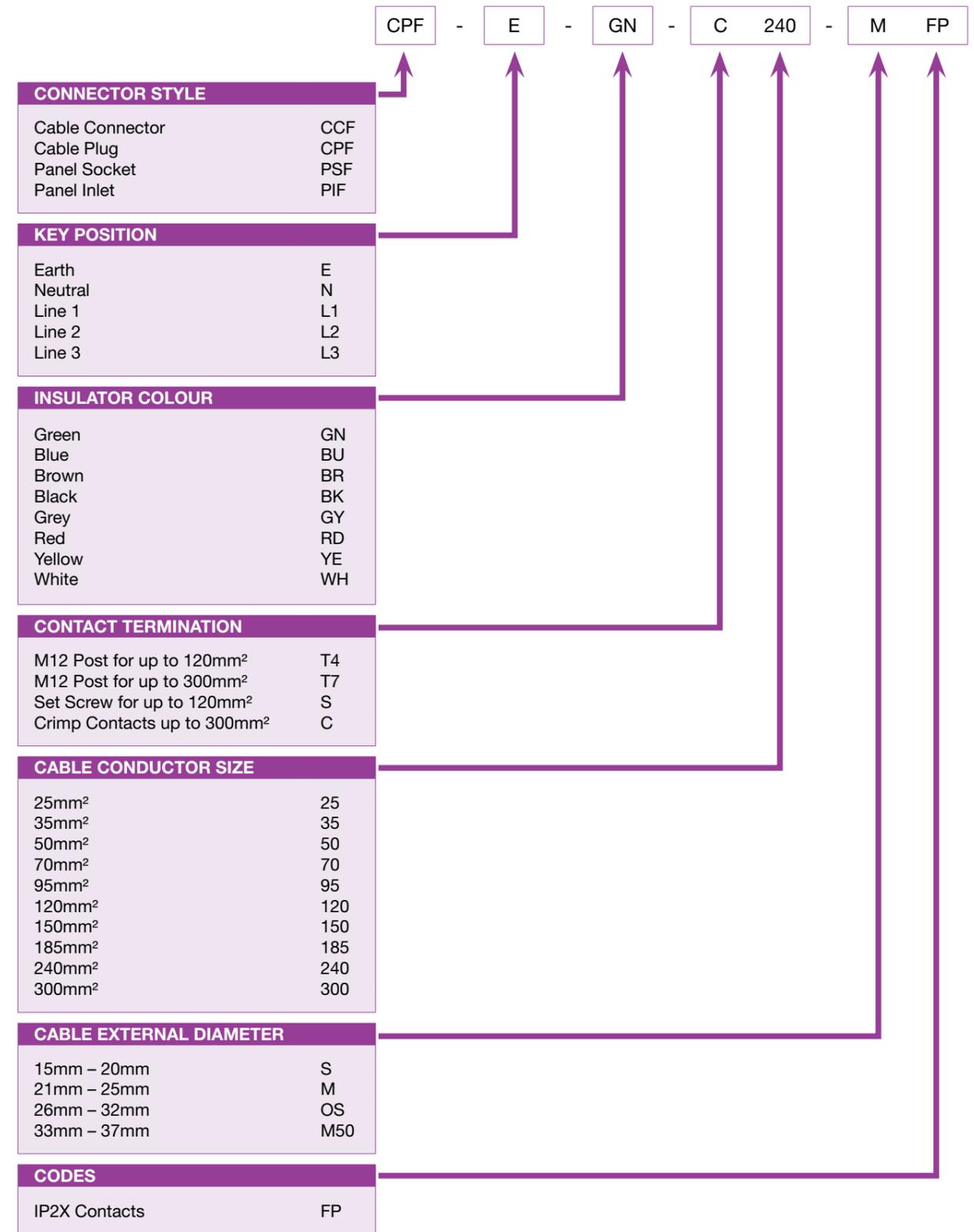
- 3 To remove place the removal tool around the cable and position into the rear of the insulator.



- 4 Push the contact from the front and it will release from the insulator.



PART NUMBER CONFIGURATION



MODIFICATION CODES

Consult Factory
 Earth Neutral Line 1 Line 2 Line 3
 Australia Green Black Red White Blue





Ten 47 - Powerline, single pole, 400Amp

PANEL SOCKET (Panel Source)



400 Amp Panel Socket	Part Code	Color
	PSF -E-GN-T ⁴ -FP	Green
	PSF -N-BK-T ⁴ -FP	Black
	PSF - ¹ -R-T ⁴ -FP	Red
	PSF - ² -WH-T ⁴ -FP	White
	PSF - ³ -BU-T ⁴ -FP	Blue

PANEL INLET (Panel Drain)



400 Amp Panel Inlet	Part Code	Color
	PIF -E-GN-T ⁴ -FP	Green
	PIF -N-BK-T ⁴ -FP	Black
	PIF - ¹ -R-T ⁴ -FP	Red
	PIF - ² -WH-T ⁴ -FP	White
	PIF - ³ -BU-T ⁴ -FP	Blue

Style "PSF"

Panel Source Connectors are typically used as the Live or Supply side of the circuit and utilise a Solid Insulated contact tip to provide IP2X Finger Protection when unmated. "PSF" Connectors incorporate a slot that engages with the Locking Pin on both the mating Panel Inlet and Cable Plug connectors.

Style "PIF"

Panel Drain Connectors utilise a spring-mounted contact with a Double Insulated Sleeve that provides IP2X Finger Protection when unmated. The "CCF" contact depresses the spring and sleeves to obtain Electrical connection. When unmated, they return automatically to the IP2X position. A Locking Pin engages with the slot on both the Panel Socket and Cable Connectors when mated.

CABLE CONNECTOR (Line Source)



1200mm ² Cable Connector	Part Code	Color
	CCF -E-GN-S12 ⁰ -M-FP	Green
	CCF -N-BK-S12 ⁰ -M-FP	Black
	CCF - ¹ -R-S-12 ⁰ -M-FP	Red
	CCF - ² -WH-S12 ⁰ -M-FP	White
	CCF - ³ -BU-S12 ⁰ -M-FP	Blue

Style "CCF"

Line source Connectors are typically used as the Live or Supply side of the circuit and utilise a Solid Insulated contact tip to provide IP2X Finger Protection when unmated. "CCF" Connectors incorporate a slot that engages with the Locking Pin on both the mating Panel Inlet and Cable Plug connectors.

CABLE PLUG (Line Drain)



1200mm ² Cable Plug	Part Code	Color
	CPF -E-GN-S12 ⁰ -M-FP	Green
	CPF -N-BK-S12 ⁰ -M-FP	Black
	CPF - ¹ -R-S12 ⁰ -M-FP	Red
	CPF - ² -WH-S12 ⁰ -M-FP	White
	CPF - ³ -BU-S12 ⁰ -M-FP	Blue

Style "CPF"

Line drain connectors utilise a spring-mounted contact with a Double Insulated Sleeve that provides IP2X Finger Protection when unmated. The "CCF" contact depresses the spring and sleeves to obtain Electrical connection. When unmated, they return automatically to the IP2X position. A Locking Pin engages with the slot on both the Panel Socket and Cable Connectors when mated Panel Inlet and Cable Plug connectors.

Compression Sleeves and Tools



Compression Sleeves	Part Code
35mm ² Compression Sleeve	CS-35
50mm ² Compression Sleeve	CS-50
70mm ² Compression Sleeve	CS-70
95mm ² Compression Sleeve	CS-95
120mm ² Compression Sleeve	CS-120
Set Screw Contact Removal Tool	REM-185P
Crimp Contact Removal Tool	REM-240P

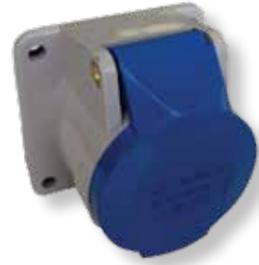
- All connectors are IP2X Protected
- In Line Connectors are supplied as standard with Metric Cable Glands.
- Connectors seal to IP68 when mated.
- Once mated, the connectors are separated by using a remote unlocking key.
- Panel connectors can be Front or Rear mounted on equipment.
- All connectors are mechanically keyed and individually colour coded to help prevent any possible cross connection errors.
- Plastic Push / Pull or Environmental
- Locking caps are available for all connectors.





Ceeform

16amp Single Phase (2P+E) IP44



PE 1663 PQ



PE 1663 PV



PE 1663 SV

32amp Single Phase (2P+E) IP44



PE 3263 PQ



PE 3263 PV



PE 3263 SV

32amp Three Phase (3P+N+E) IP67



PEW 3265 PQ



PEW 3265 PV



PEW 3265 SV

63amp Three Phase (3P+N+E) IP67



PEW 6365 SI



PEW 6365 PV



PEW 6365 SV

Treotham Soft Flex Stage Event Cables



Technical Data

Specially modified PVC

- **Temperature range**
-30C to +70C
- **Nominal voltage**
450/750V
- **Bending radius**
5 x cable diameter

Cable Structure

- Bare copper conductors
- Class 5, according to PN-EN 60228
- Insulation of specially modified PVC
- Black cores with white numbers
- Outer sheath special PVC ensuring excellent flexibility
- Outer sheath colour black

Properties

Excellent toughness and flexibility
Good abrasion resistance

Resistant to:

UV and ozone
Alcohol
Animal and vegetable oils

Application

Soft-Flex cable is designed for mobile power supply to stage devices. The outer sheath is made of specially modified PVC compound and guarantees excellent flexibility and resistance to Ultra Violet rays.

Part Number	No. Cores x cross-sec mm ²	Outer Diameter in mm	Coper weight Kg/Km	Cable Weight Kg/Km
TA21.0015.07	7 G 1.5	10.2	101	184
TA21.0015.12	12 G 1.5	11.8	173	309
TA21.0015.18	18 G 1.5	15.3	259	440
TA21.0015.12.6E	12 x 1.5 + 6 G 1.5	15.3	259	440
TA21.0025.12	12 G 2.5	16.05	288	520
TA21.0025.18	18 G 2.5	19.3	432	764
TA21.0025.12.6E	12 x 2.5 + 6 G 2.5	19.3	432	764

The most flexible cable on the market for Entertainment & Stage Lighting

- UV Stabilized
- Available in 18 core with 6 earth conductors
- Special Super Flexible Construction

