

Power Connectors

ILME multipole connectors cover a huge range of power, control and data applications. With the rated current ranging from 5A to 200A and with the possibility of up to 300 poles in a single connector, ILME can service all major industries and can be found in all types of electric machinery, control units, electrical panels, and wherever connections are required for power and signalling circuits.

ILME connectors comply with standard EN 61984 and are approved in accordance with the following approval marks:



Enclosures:

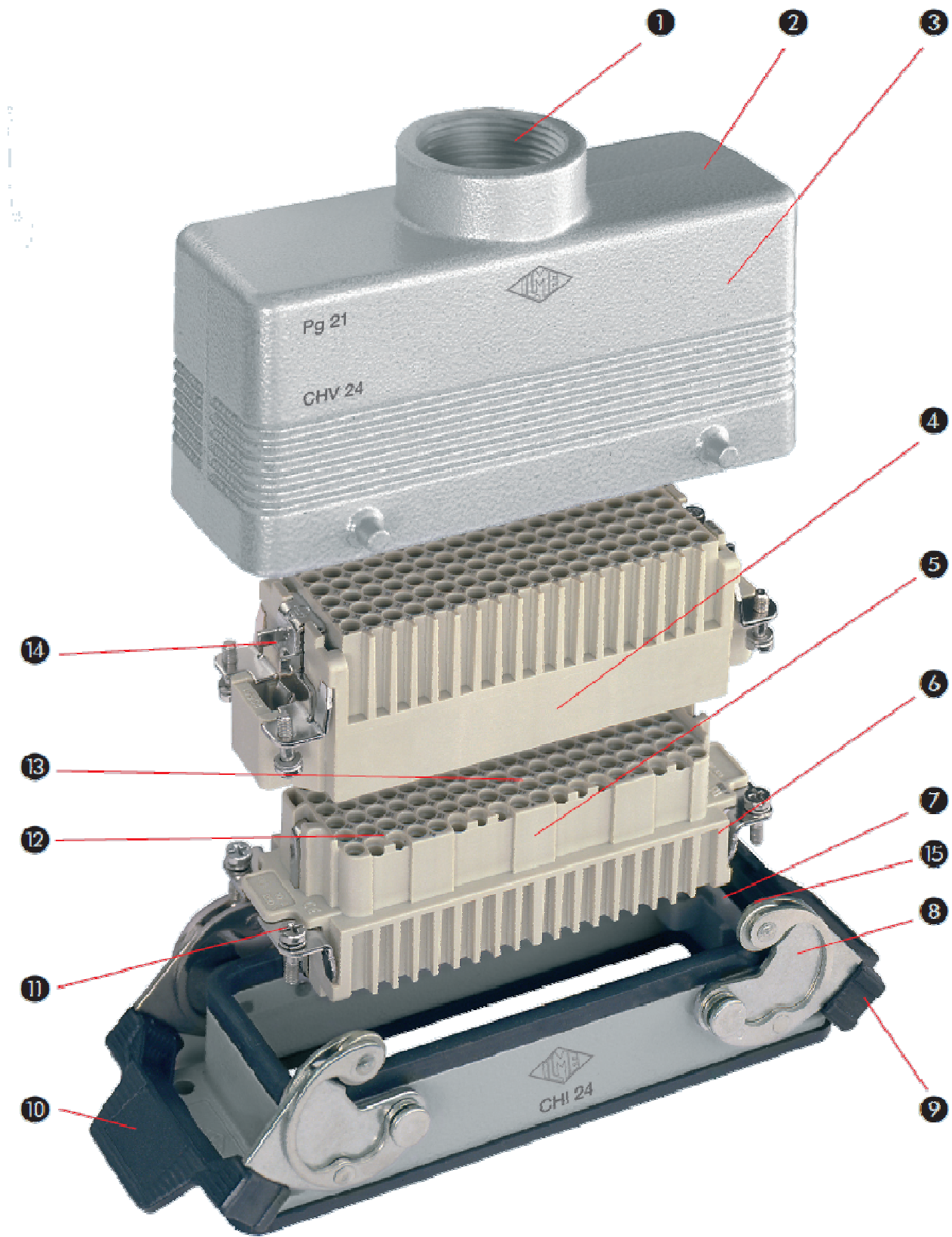
Enclosures are available with various combinations of component materials, each one suitable for a specific installation, including regular conditions, high temperature environments, aggressive environments and environments that require electromagnetic compatibility. The principle parts are made in die cast aluminium alloy with a coating of epoxy polyester powder or in self extinguishing thermoplastic which protect the inserts from impacts and strong mechanical stress.

Levers and special gaskets are used to seal the connector and protect the internal contacts against dust and water. IP ratings are available from IP44 to IP 67,68 and 69K.

Inserts:

Inserts are made of self extinguishing thermoplastic. Special versions are also available in PPS for a maximum ambient temperature of 180 °C. There are 4 termination methods: screw, spring, SQUICH® and crimp and contacts are available in silver or gold plated brass, as well as tin plated versions and iron and constantan for thermocouple applications.

Power and signal poles can be found in the same insert, anywhere between 5A and 200A and 50V to 5000V.



1. Threaded cable passage in various Pg or metric threads in accordance with EN 60423, may be located vertically, horizontally or frontally.
2. Rugged die-cast aluminium alloy or self-extinguishing thermoplastic enclosures. UL approved.
Surface-mounting, bulkhead and hood versions are available, with or without fixed covers or with mobile protection covers.
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 are available.
4. Inserts are made of UL certified self-extinguishing fibreglass reinforced thermoplastics and feature an operating temperature range between -40 °C and +125 °C.
For some series, inserts in PPS (polyphenylene sulphide) may be requested for special uses with temperatures of up to 180 °C.
5. Insert profiles polarised with asymmetrical guides to avoid incorrect coupling.
6. Inserts are manufactured in compliance with European standard EN 61984 (DIN VDE 0627), certified and identified with UL and CSA markings.
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, material.
Special conductive gaskets 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). In metallic enclosures, ILME offers two different types of levers: vertical (V-TYPE) or classic rotative (C-TYPE) closure.

10. Various handle solutions are available: in self-extinguishing, thermoplastic material reinforced with glass fibres; in die-cast aluminium , monoblock stainless steel handles

11. Captive insert fastening screws, with anti-slackening spring washer or under-head knurling.

12. Contact position identified with numbers or codes on both sides of each insert and printed with a laser system.

13. Silver or gold plated brass contacts connected to the wires by means of captive screws supplied already slackened, with spring terminal, by means of crimping (contacts available separately), or with a built-in 45° terminal block (in turn with screw or spring terminal).

14. Protective earth terminal with a wide contact surface.

15. Pins and levers supplied with anti-friction rings that facilitate closure and limit wear and tear.