

EUROMAP 13	Injection Moulding Machines, Core Pullers Electrical Interface
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Version 1.5, May 2015
6 pages

This recommendation was prepared by the Technical Commission of EUROMAP.

History

Date	Version	Changes
October 2006	1.1	A further supplier added
July 2007	1.2	Supplier's data amended
November 2009	1.3	A further supplier added
February 2015	1.4	A further supplier added
May 2015	1.5	List of plug suppliers removed. Please visit www.euromap.org/technical-issues/technical-recommendations for the current list.

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1 Scope and application

This EUROMAP recommendation defines the connection between the injection moulding machine and the core pullers. This is intended to provide interchangeability.

The connection may be used for two core pullers only. In case of further core pullers another plug has to be applied.

2 Description

The plug is suitable for potential-free contact of limit switches as well as for proximity switches. Reference potential and power supply of 24 V, direct current is available (see table 1).

The range of signal voltages is +24 V \pm 20 % d.c. All signals are continuous signals, capable of driving maximum of 50 mA.

The location of the plug is preferably on the moveable platen.

3 Plug and socket outlet

The connection between the injection moulding machine and the core pullers is achieved by the plugs specified below ¹⁾. The female side of the plug is fitted to the injection moulding machine.

Arrangement of pins and sockets viewed from the mating side (opposite the wiring side).

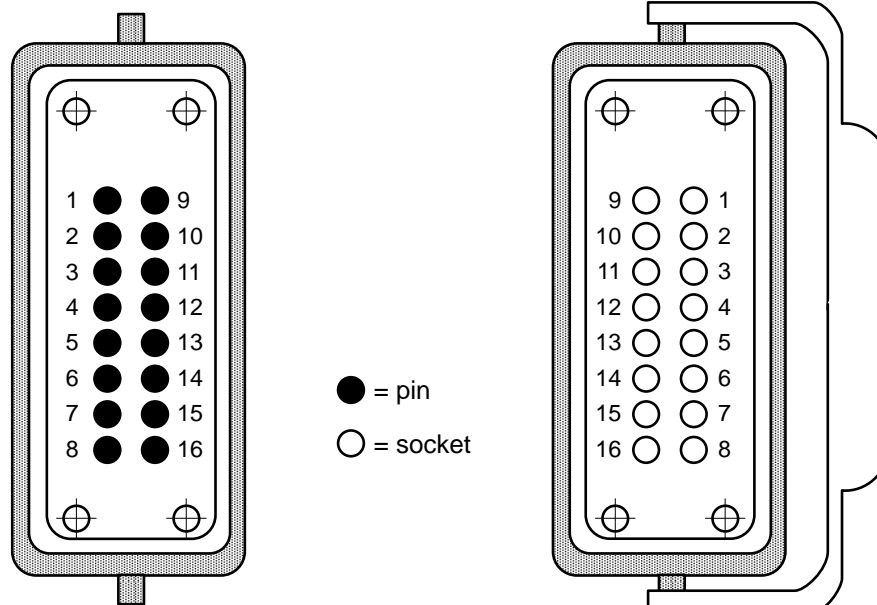


Figure 1: Plug on the core pullers

Figure 2: Plug on the injection moulding machine

¹⁾ See www.euromap.org/technical-issues/technical-recommendations for suppliers

Table 1: Plug contact assignment

Plug contact No	Signal designation	Description
1 – 4	Power supply	Positive voltages
5 – 8	Reference potential	Ground
9	Core 1 retracted	The signal is delivered to the plug contact if core 1 is retracted.
10	Core 1 is in	The signal is delivered to the plug contact if core 1 is in the mould.
11	Core 2 retracted	The signal is delivered to the plug contact if core 2 is retracted.
12	Core 2 is in	The signal is delivered to the plug contact if core 2 is in the mould.
13	Ejector is back	The signal is delivered to the plug contact if ejector is back.
14 – 16		Not assigned.

4 Load capacity of the plug contacts

A current of at least 10 mA must be maintained during signalling.

5 Sources of supply

A list of plug suppliers is available for download on the EUROMAP website:
www.euromap.org/technical-issues/technical-recommendations

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