

# 685/686/689 SERIES



POGO+

## Magnetic Spring-loaded Connectors

### Features:

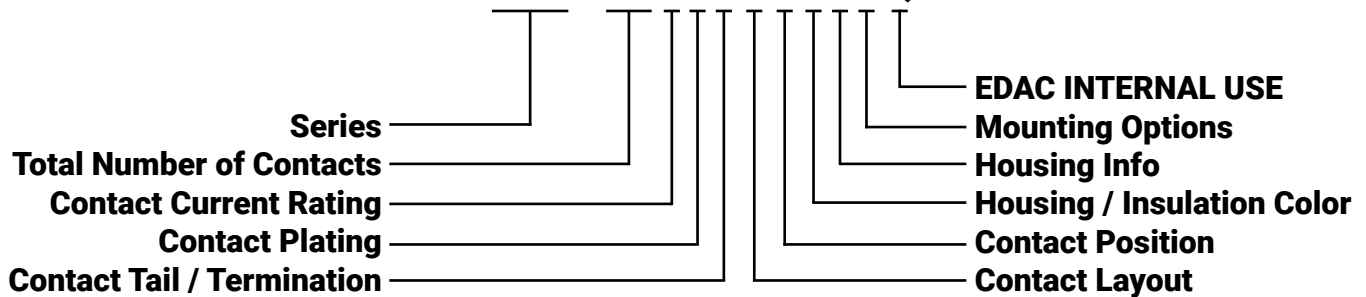
- Magnets increase the reliability of the connection and provide polarization
- High-quality "tear away" design prevents damage caused by unintended disconnection
- Magnets pull the connectors together and the user can pull them apart resulting in a quick mating and un-mating process
- More convenient than standard pogo connectors



### Specifications:

Insulator Material	Nylon
Contact Plating	Gold Flash Plating
Voltage Rating Up To (per contact)	250V
Current Rating Up To (per contact)	5 amps
Insulation Resistance	100 Megaohms
Contact Resistance	30 milliohms
Dielectric Withstanding Voltage	100 VRMS at 60 hz
Mechanical Life	Up to 30,000 mating cycles
Operating Temperature	-30°C to +85°C

### Example Part Number 686K0412P50125Q

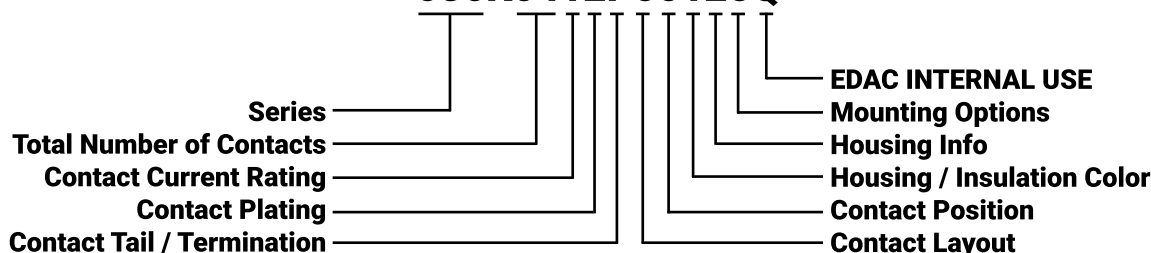


### Ordering Code Notes:

- 1) Only parts available are listed on our website at :  
<https://edac.net/products/spring-loaded-connectors/225>
- 2)\* Keyed / Polarized overrides slim-line
- 3) \*\* Polarization is achieved with housing and / or magnets
- 4) Only one kit available in 689 series. Kit number  
689N02229011F0E includes part numbers 685N0222P011F0E and  
686N02222011F0E

### Example Part Number

**686K0412P50125Q**



Series:	Description:
685	Male Magnetic
686	Female Magnetic
689	Kit Mating Connectors (See Ordering Guide Note 4)
Total Number of Contacts:	Description:
XX = 02,03,04, - 31	Min. 02 contacts   Max. 31 Contacts
Contact Current Rating	Description:
1	1.0A
B	1.2A
C	1.5A
2	2.0A
3	3.0A
5	5.0A
Contact Plating	Description (inches):
1	5μ" Gold
2	Gold Flash
3	15μ" Gold
4	10μ" Gold
Contact Tail / Terminations	Tail Description:
2	Straight
3	90 deg Round Tail
4	Solder Cup
F	Integrated FPC
P	Integrated PCB

Mounting Options	Description:
0	None
1	Through hole grounding tab
3	Plain hole
4	Plain hole & Peg
5	Peg
7	Threaded hole
Housing Info	Description (mm):
1	Vertical (Non-Circular)
2	Right Angle (Non-Circular)
A	Ø5.5
B	Ø6
C	Ø7.4 - Ø8
D	Ø10
E	Ø12
F	Ø13/Ø14
G	Ø16.5
Housing Insulation Color	Description:
0	White
1	Black
2	Grey
Contact Position	Description:
0	Recessed/Shrouded Contact All (no Skirt - Circular)
1	Protruding Contact All (no Skirt - Circular)
2	Recessed/Shrouded Contact with Skirt - Circular only
3	Protruding Contact with Skirt - Circular only
Contact Layout	Description:
0	Circular Housing
A	Keyed/Polarized Circular Housing
1	Standard single row
2	Standard double row
5	Keyed/Polarized single row (housing or magnet)*
6	Keyed/Polarized double row (housing or magnet) **

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