

# COMPONENTS FOR PRESS-FIT TECHNOLOGY

Assembly technology for heavy  
mechanical and electrical loads

COLOR CODED  
JPT-SOCKET HOUSINGS  
&  
SUITABLE MATING PLUGS



- + EXTENSIVE EXPERIENCE IN THE FIELD OF PRESS-FIT TECHNOLOGY
- + IN-HOUSE MANUFACTURING OF PRESS-FIT COMPONENTS
- + HIGH AVAILABILITY & CUSTOMIZED ORDER PICKING



ELECTRONICS FOR COMMERCIAL & SPECIAL VEHICLES



## PRESS-FIT TECHNOLOGY

### Innovative assembling technology for high-performance PCBs

Press-fit Technology is a progressive method to connect electronic components to a PCBs. Unlike usual assembling technologies such as soldering, where parts are connected under heat, press-fit technology relies on pressure to create a mechanical bond. With this technology, special contact pins are pressed into plated-through holes on the circuit board. This type of connection technology results in a gas-tight as well as electrically and mechanically reliable connection between the components and the PCB. Press-fit technology is primarily used in applications with high mechanical requirements, such as in the aerospace and automotive industries as well as in industrial environments.

### BENEFITS OF THE PRESS-FIT TECHNOLOGY

- + high ampacity through low resistant contact points
- + mechanical load capacity and vibration resistance through high extraction force
- + space-efficient through bilateral assembling options on the PCB
- + durable through gas-tight welding of contact points
- + gentle on electronic components due to missing thermal load
- + environmentally friendly, as no harmful substances such as solders are used
- + functionally reliable, as there are no cold solder points



## HOLDER & CONNECTORS FOR PRESS-FIT TECHNOLOGY

### Overview of different press-fit components








#### Sockets & Holder

							
description	Mini-Relay-Socket 5x6,3mm	Mini-Relay-Socket 5x6,3mm + 4x2,8mm	Mikro-Relay-Socket 2x6,3mm + 3x4,8mm	Fuseholder MINIVAL	Fuseholder UNIVAL	Flat plug socket 6,3mm	Flat plug socket 9,5mm
number of pins	5	9	5	2	2	1	1
limiting continuous current per pin	40 A	40 A	40 A	40 A	40 A	40 A	40 A
Part number	5018436	5018437	5018435	5018438	5018439	5019792	5019305

#### JPT male multipoint connector Coding A

								
number of pins	21	18	15	12	9	6	18	10
contact distribution	3 x 7	3 x 6	3 x 5	3 x 4	3 x 3	3 x 2	2 x 9	2 x 5
limiting continuous current per pin	20 A	20 A	20 A	20 A	20 A	20 A	20 A	20 A
black	5018403	5018402	5018401	5018400	5018399	5018396	5019834	5019833
violet	5018434	5018433	5018432	5018431	5018430	5018429		
brown	5018428	5018427	5018426	5018425	5018424	5018423		
green	5018422	5018421	5018420	5018419	5018418	5018417		
yellow	5018416	5018415	5018414	5018413	5018412	5018411		
blue	5018410	5018409	5018408	5018407	5018406	5018404		
grey	5019799	5019798	5019797	5019796	5019795	5019794		

#### JPT connector Coding A

						
number of pole	21	18	15	12	9	6
contact distribution	3 x 7	3 x 6	3 x 5	3 x 4	3 x 3	3 x 2
limiting continuous current per pole	20 A	20 A	20 A	20 A	20 A	20 A
violet	5009520	5020541	5004743	5021569	5021572	5021575
brown	5004744	5009567	5021565	5021568	5021571	5021574
green	5021562	5012354	5021564	5004769	5021570	5021573
yellow	5008835	5004770	5020439	5021567	5004742	5009568
blue	5008382	5021563	5009521	5021566	5017401	5009056
grey	5005423	5000256	5004325	5011409	5000254	5011388

#### Benefits of color coding

Meeting customer-specific design requirements | Identification of different control circuits and socket types  
Avoiding assembly errors | Optimization of the production processes | Facilitating documentation

# BENEFITS OF MIUNSKKE

Regardless if you prefer to manufacture your electronic components in one or several assembly technologies (mixed assembly) - We can offer you the exact solution that suits you.

- fast availability of press-fit components
- color coded JPT-sockets & suitable mating plugs
- inhouse layout design for PCB
- inhouse design of mechanical components
- also predestined for customized small series



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**miunske GmbH**

+49 35938 9800-0 • [info@miunske.com](mailto:info@miunske.com)

Oberlausitzer Straße 28 • D-02692 Großpostwitz

[miunske.com](https://miunske.com)

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