



# Hochstromkontakte

## High Power Contacts

### Technische Daten

#### Technical Data

##### Mechanische Daten

##### Mechanical Data

Mechanische Daten Mechanical Data	
Steckkraft (Kontaktpaar) <i>Mating force (pair of contacts)</i>	≤ 7 N
Ziehkraft <i>Unmating force</i>	ca. 5 N
Temperaturbereich (Prüfklasse 55/155/21 nach DIN, IEC 68 Teil 1) <i>Temperature range (test category 55/155/21 to DIN, IEC 68 part 1)</i>	-55 °C bis 155 °C -67 °F to 311 °F
Steckzyklen (Standard) <i>Mating cycles (standard)</i>	≥ 500
Steckzyklen (Low cost) <i>Mating cycles (low cost)</i>	≥ 200

##### Elektrische Daten

##### Electrical Data

Elektrische Daten Electrical Data	
Durchgangswiderstand <i>Contact resistance</i>	≤ 1 mΩ
Maximaler Kontaktstrom (DC) (siehe Seite 65 ff.) <i>Current rating (DC) (see from page 65 onwards)</i>	10 - 40 A

##### Materialien

##### Materials

Materialien Materials	
Stiftkontakt <i>Pin contact</i>	Cu Legierung <i>Cu alloy</i>
Buchsenkontakt <i>Socket contact</i>	Cu Legierung <i>Cu alloy</i>
Halteclip <i>Retaining clip</i>	Cu Legierung <i>Cu alloy</i>



# Hochstromkontakte, Abmessungen Steckbereich

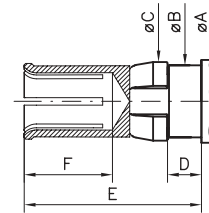
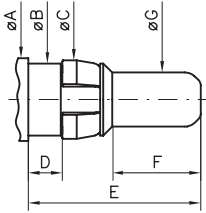
## High Power Contacts, Mating Area Dimensions

**Stecker**

**Plug**

**Buchse**

**Socket**



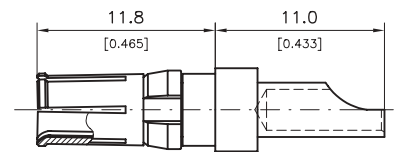
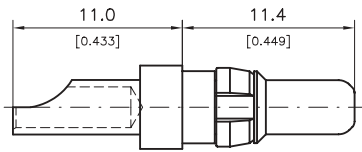
	Stecker / Plug		Buchse / Socket			
	min	max.	min	Modi. U*	max.	Modi. U*
<b>ØA</b>	—	5,50 (0.217)	—		5,50 (0.217)	
<b>ØB</b>	4,75 (0.187)	4,80 (0.189)	4,75 (0.187)		4,80 (0.189)	
<b>ØC</b>	5,00 (0.197)	5,40 (0.213)	5,00 (0.197)		5,40 (0.213)	
<b>D</b>	2,25 (0.089)	2,45 (0.096)	2,25 (0.089)	2,10 (0.083)	2,45 (0.096)	2,25 (0.089)
<b>E</b>	—	11,40 (0.449)	—		11,80 (0.465)	11,50 (0.453)
<b>F</b>	5,85 (0.230)	5,90 (0.232)	5,80 (0.228)		6,00 (0.236)	
<b>ØG</b>	3,57 (0.141)	3,60 (0.142)	—		—	

**Modification U\* siehe Seite 25**  
**Modification U\* please see page 25**



# Hochstromkontakte, gerader Kabelanschluss, Lötén

## High Power Contacts, Straight Cable Termination, Solder



Bestellnummer Stecker Order Number Plug	Ausführung Type	Oberflächen / Platings		Kabelgröße Wire Size	max. Strom Current Rating	Bestellnummer Steckdose Order Number Receptacles
		Steckbereich Mating Area	Anschlussbereich Termination Area			
FMP005P103	standard	0,8 μm Au	0,2 μm Au	AWG 16 - 20	10 A	FMP005S103
FMP005P105	low cost	0,2 μm Au	5 μm Sn			FMP005S105
FMP006P103	standard	0,8 μm Au	0,2 μm Au	AWG 12 - 16	20 A	FMP006S103
FMP006P105	low cost	0,2 μm Au	5 μm Sn			FMP006S105
FMP105P103	standard	0,8 μm Au	0,2 μm Au	AWG 10 - 12	30 A	FMP105S103
FMP105P105	low cost	0,2 μm Au	5 μm Sn			FMP105S105
FMP007P103	standard	0,8 μm Au	0,2 μm Au	AWG 8 - 12	40 A	FMP007S103
FMP007P105	low cost	0,2 μm Au	5 μm Sn			FMP007S105

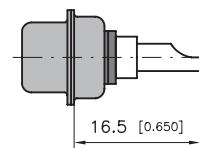
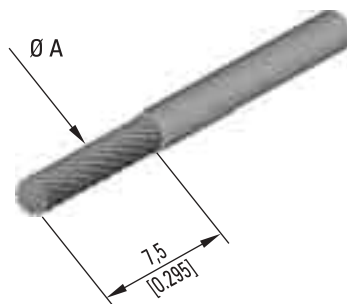
Andere Oberflächen auf Anfrage  
Other platings on request

≈0,2 μm = 8 microinches  
≈0,8 μm = 30 microinches

≈1,3 μm = 50 microinches  
≈5 μm = 200 microinches

### Abmessungen

#### Dimensions

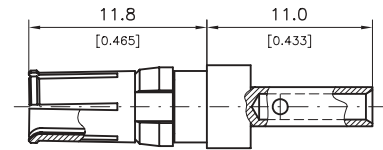
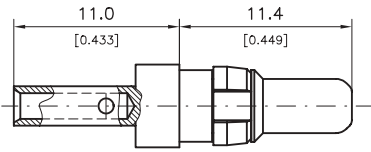


Bestellnummer Order Number	Ø A max.	max. Querschnittsfläche (mm <sup>2</sup> ) Max. Cross Section Area (sq.in.)
FMP005...	1,8 (0.071)	2,54 (0.004)
FMP006...	2,7 (0.106)	5,73 (0.009)
FMP105...	3,5 (0.138)	9,60 (0.015)
FMP007...	4,8 (0.189)	18,10 (0.028)



# Hochstromkontakte, gerader Kabelanschluss, Crimpen

## High Power Contacts, Straight Cable Termination, Crimp



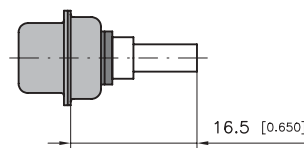
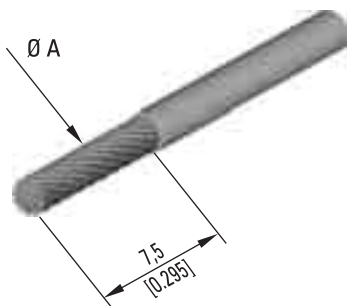
Bestellnummer Stecker <i>Order Number Plug</i>	Ausführung <i>Type</i>	Oberflächen / Platings		Kabelgröße <i>Wire Size</i>	max. Strom <i>Current Rating</i>	Bestellnummer Steckdose <i>Order Number Receptacles</i>
		Steckbereich <i>Mating Area</i>	Anschlussbereich <i>Termination Area</i>			
FMP002P103	standard	0,8 µm Au	0,2 µm Au	AWG 16 - 20	10 A	FMP002S103
FMP002P106	low cost	0,2 µm Au	0,2 µm Au			FMP002S106
FMP003P103	standard	0,8 µm Au	0,2 µm Au	AWG 12 - 14	20 A	FMP003S103
FMP003P106	low cost	0,2 µm Au	0,2 µm Au			FMP003S106
FMP053P103	standard	0,8 µm Au	0,2 µm Au	AWG 10 - 12	30 A	FMP053S103
FMP053P106	low cost	0,2 µm Au	0,2 µm Au			FMP053S106
FMP004P103	standard	0,8 µm Au	0,2 µm Au	AWG 8 - 10	40 A	FMP004S103
FMP004P106	low cost	0,2 µm Au	0,2 µm Au			FMP004S106

Andere Oberflächen auf Anfrage / *Other platings on request*  
 Werkzeuge ab Seite 89 ff. / *Tools from page 89 onwards*

≈0,2 µm = 8 microinches      ≈1,3 µm = 50 microinches  
 ≈0,8 µm = 30 microinches    ≈5 µm = 200 microinches

### Abmessungen

#### Dimensions

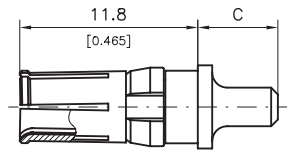
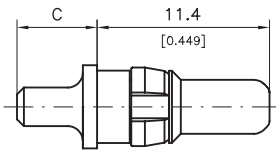


Bestellnummer <i>Order Number</i>	Ø A min.	Ø A max.	min. Querschnittsfläche (mm <sup>2</sup> ) <i>Min. Cross Section Area (sq.in.)</i>	max. Querschnittsfläche (mm <sup>2</sup> ) <i>Max. Cross Section Area (sq.in.)</i>
FMP002...	0,9 (0.035)	1,7 (0.067)	0,64 (0.001)	2,27 (0.004)
FMP003...	1,8 (0.071)	2,6 (0.102)	2,54 (0.004)	5,31 (0.008)
FMP053...	2,2 (0.087)	3,7 (0.146)	3,80 (0.006)	10,75 (0.017)
FMP004...	2,9 (0.114)	4,6 (0.181)	6,61 (0.010)	16,62 (0.026)



# Hochstromkontakte, gerader Leiterplattenanschluss

## High Power Contacts, Straight PCB Termination



Bestellnummer Stecker <i>Order Number Plug</i>	Ausführung <i>Type</i>	Oberflächen / Platings		max. Strom <i>Current Rating</i>	Bestellnummer Steckdose <i>Order Number Receptacles</i>
		Steckbereich <i>Mating Area</i>	Anschlussbereich <i>Termination Area</i>		
FMP010P104	standard	0,8 μm Au	5 μm Sn	20 A	FMP010S104
FMP010P105	low cost	0,2 μm Au	5 μm Sn		FMP010S105
FMP014P104	standard	0,8 μm Au	5 μm Sn	20 A	FMP014S104
FMP014P105	low cost	0,2 μm Au	5 μm Sn		FMP014S105
FMP016P104	standard	0,8 μm Au	5 μm Sn	40 A	FMP016S104
FMP016P105	low cost	0,2 μm Au	5 μm Sn		FMP016S105

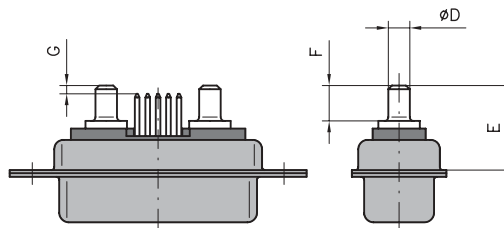
Andere Oberflächen auf Anfrage.  
*Other platings on request.*

≈0,2 μm = 8 microinches  
≈0,8 μm = 30 microinches

≈1,3 μm = 50 microinches  
≈5 μm = 200 microinches

### Abmessungen am Beispiel FM7W2P1 mit Hochstromkontakten FMP...P... und Signalkontakten P1

### Dimensions on the Example FM7W2P1 with High Power Contacts FMP...P... and Signal Contacts P1



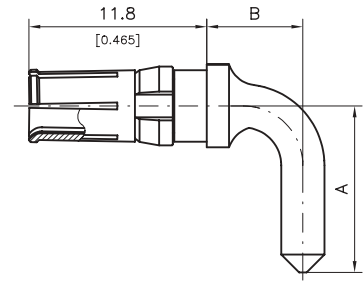
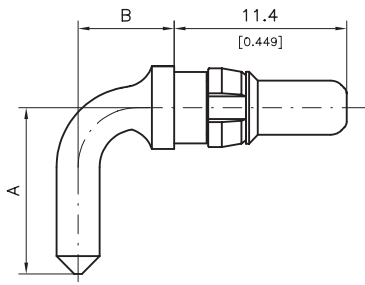
Seitenansicht ohne Signalkontakte!  
*Side view without signal contacts!*

Bestellnummer <i>Order Number</i>	C	Ø D	E	F	G	Bohrung Ø <i>Drilling Ø</i>
FMP010...	4,7 (0.185)	2,85 (0.112)	10,2 (0.402)	3,7 (0.146)	0,1 (0.004)	3,2 (0.124)
FMP014...	5,3 (0.209)	2,60 (0.102)	10,8 (0.425)	4,3 (0.169)	0,7 (0.028)	2,9 (0.114)
FMP016...	5,7 (0.224)	3,75 (0.148)	11,2 (0.441)	4,7 (0.185)	1,1 (0.043)	4,0 (0.157)



# Hochstromkontakte, abgewinkelter Leiterplattenanschluss

## High Power Contacts, Right Angled PCB Termination



Bestellnummer Stecker <i>Order Number Plug</i>	Ausführung <i>Type</i>	Oberflächen / Platings		max. Strom <i>Current Rating</i>	Bestellnummer Steckdose <i>Order Number Receptacles</i>
		Steckbereich <i>Mating Area</i>	Anschlussbereich <i>Termination Area</i>		
FMP008P104	standard	0,8 µm Au	5 µm Sn	20 A	FMP008S104
FMP008P105	low cost	0,2 µm Au	5 µm Sn		FMP008S105
FMP009P104	standard	0,8 µm Au	5 µm Sn	40 A	FMP009S104
FMP009P105	low cost	0,2 µm Au	5 µm Sn		FMP009S105
FMP021P104	standard	0,8 µm Au	5 µm Sn	30 A	FMP021S104
FMP021P105	low cost	0,2 µm Au	5 µm Sn		FMP021S105
FMP235P104*	standard	0,8 µm Au	5 µm Sn	40 A	FMP235S104*

Andere Oberflächen auf Anfrage.

*Other platings on request.*

≈0,2 µm = 8 microinches

≈0,8 µm = 30 microinches

≈1,3 µm = 50 microinches

≈5 µm = 200 microinches

\* Kontakt mit erhöhter Leitfähigkeit

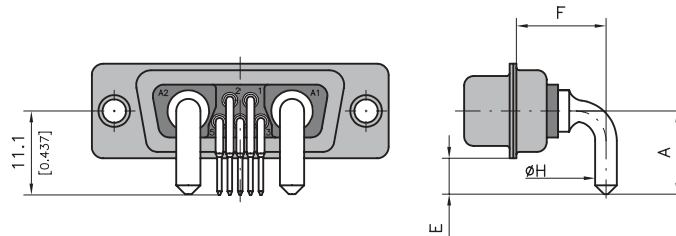
*Contact with increased conductivity*

Kontakte auch mit Rändel zur Fixierung im Steckverbinder erhältlich.

*Contacts with knurl for securing in a connector are also available.*

### Abmessungen am Beispiel FM7W2P5 mit Hochstromkontakten FMP..P.. und Signalkontakten P5

#### Dimensions on the Example FM7W2P5 with High Power Contacts FMP..P.. and Signal Contacts P5



Seitenansicht ohne Signalkontakte!

*Side view without signal contacts!*

Bestellnummer <i>Order Number</i>	A	B	E	F	Ø H	Bohrung Ø <i>Drilling Ø</i>
FMP008...	11,0 (0.433)	6,3 (0.248)	4,75 (0.187)	11,8 (0.465)	2,85 (0.112)	3,15 (0.124)
FMP009...	11,0 (0.433)	6,3 (0.248)	4,75 (0.187)	11,8 (0.465)	3,75 (0.148)	4,05 (0.159)
FMP021...	9,5 (0.374)	15,0 (0.591)	3,25 (0.128)	20,5 (0.807)	3,2 (0.126)	3,5 (0.138)
FMP235...	10,8 (0.425)	5,1 (0.201)	4,55 (0.179)	10,6 (0.417)	2,85 (0.112)	3,15 (0.124)