



# High Power Contacts

## Hochstromkontakte

### Technical Data

#### Technische Daten

##### Mechanical Data

##### Mechanische Daten

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

##### Electrical Data

##### Elektrische Daten

Electrical Data <i>Elektrische Daten</i>	
Contact resistance <i>Durchgangswiderstand</i>	≤ 1 mΩ
Current rating (DC with an ambient temperature of 20°C) (see from page 65 onwards) <i>Maximaler Kontaktstrom (DC bei 20°C Umgebungstemperatur)</i> <i>(siehe Seite 65 ff.)</i>	10 - 40 A

##### Materials

##### Materialien

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



# High Power Contacts, Mating Area Dimensions

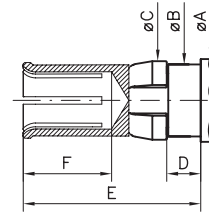
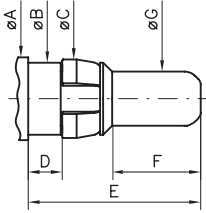
## Hochstromkontakte, Abmessungen Steckbereich

Plug

Stecker

Socket

Buchse



	Plug / Stecker		Socket / Buchse			
	min	max.	min	max.		
			Modi. U*	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)	—	—		

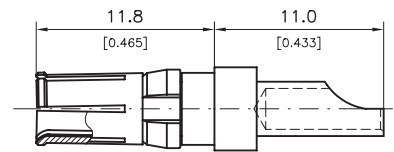
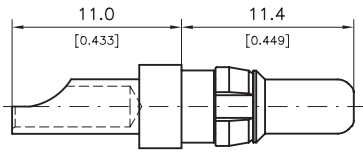
Modification U\* please see page 25

Modifikation U\* siehe Seite 25



# High Power Contacts, Straight Cable Termination, Solder

## Hochstromkontakte, gerader Kabelanschluss, Löten



Order Number Plug <i>Bestellnummer Stecker</i>	Type <i>Ausführung</i>	Platings / <i>Oberflächen</i>		Wire Size <i>Kabelgröße</i>	Current Rating <i>max. Strom</i>	Order Number Receptacles <i>Bestellnummer Steckdose</i>
		Mating Area <i>Steckbereich</i>	Termination Area <i>Anschlussbereich</i>			
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

Other platings on request

*Andere Oberflächen auf Anfrage*

8 microinches =  $\approx 0,2 \mu\text{m}$

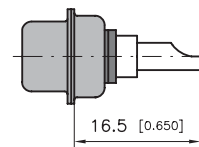
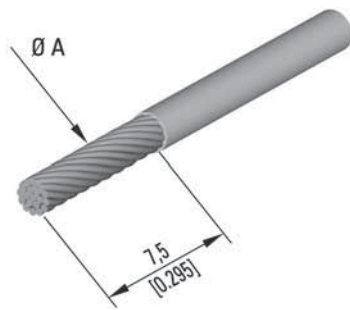
30 microinches =  $\approx 0,8 \mu\text{m}$

50 microinches =  $\approx 1,3 \mu\text{m}$

200 microinches =  $\approx 5 \mu\text{m}$

### Dimensions

#### Abmessungen

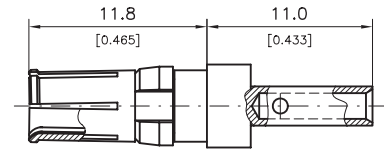
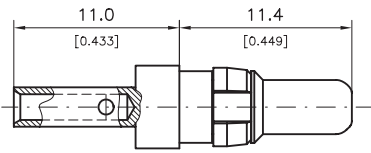


Order Number <i>Bestellnummer</i>	Ø A max.	Max. Metrical Cross-Section Area (sq.in.) <i>max. metrische Querschnittsfläche (mm<sup>2</sup>)</i>
FMP005...	1,8 (0.071)	2,54 (0.004)
FMP006...	2,7 (0.106)	5,73 (0.009)
FMP105...	3,5 (0.138)	9,60 (0.015)
FMP007...	4,8 (0.189)	18,10 (0.028)



# High Power Contacts, Straight Cable Termination, Crimp

## Hochstromkontakte, gerader Kabelanschluss, Crimpen



Order Number Plug <i>Bestellnummer Stecker</i>	Type <i>Ausführung</i>	Platings / <i>Oberflächen</i>		Wire Size <i>Kabelgröße</i>	Current Rating <i>max. Strom</i>	Order Number Receptacles <i>Bestellnummer Steckdose</i>
		Mating Area <i>Steckbereich</i>	Termination Area <i>Anschlussbereich</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

Other platings on request / *Andere Oberflächen auf Anfrage*

Tools from page 89 onwards / *Werkzeuge ab Seite 89 ff.*

8 microinches =  $\approx 0,2 \mu\text{m}$

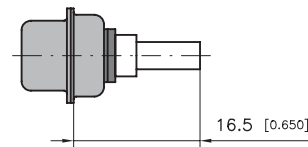
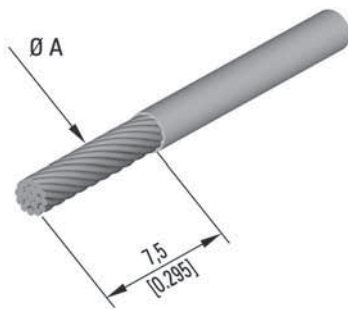
30 microinches =  $\approx 0,8 \mu\text{m}$

50 microinches =  $\approx 1,3 \mu\text{m}$

200 microinches =  $\approx 5 \mu\text{m}$

### Dimensions

#### Abmessungen

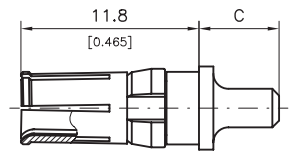
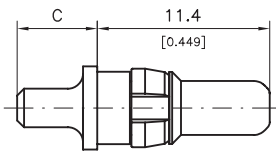


Order Number <i>Bestellnummer</i>	Ø A min.	Ø A max.	Min. Metrical Cross-Section Area <i>min. metrische Querschnittsfläche</i>	Max. Metrical Cross-Section Area <i>max. metrische Querschnittsfläche</i>
FMP002...	0,9 (0.035)	1,7 (0.067)	0,64 mm <sup>2</sup> (0.001 sq.in.)	2,27 mm <sup>2</sup> (0.004 sq.in.)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



# High Power Contacts, Straight PCB Termination

## Hochstromkontakte, gerader Leiterplattenanschluss



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

Other platings on request

*Andere Oberflächen auf Anfrage*

8 microinches =  $\approx 0,2 \mu\text{m}$

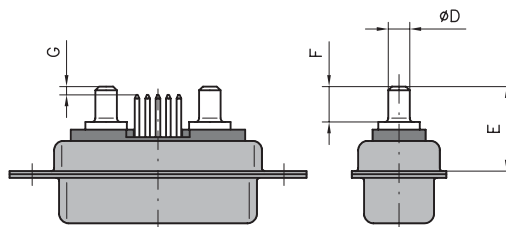
30 microinches =  $\approx 0,8 \mu\text{m}$

50 microinches =  $\approx 1,3 \mu\text{m}$

200 microinches =  $\approx 5 \mu\text{m}$

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

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



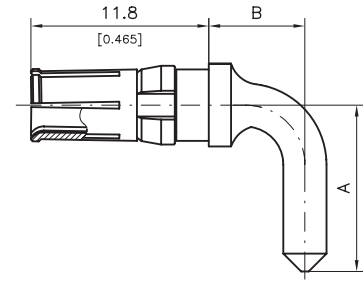
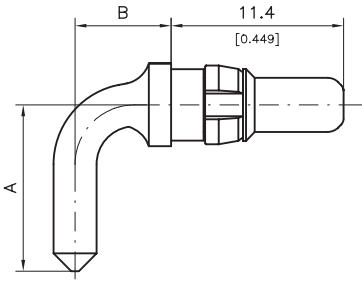
Side view without signal contacts!  
*Seitenansicht ohne Signalkontakte!*

Order Number <i>Bestellnummer</i>	C	Ø D	E	F	G	Drilling Ø <i>Bohrung Ø</i>
FMP010...	4,7 (0.185)	2,85 (0.112)	10,2 (0.402)	3,7 (0.146)	0,1 (0.004)	3,15 (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)	4,05 (0.159)



# High Power Contacts, Right Angled PCB Termination

## Hochstromkontakte, abgewinkelter Leiterplattenanschluss



Order Number Plug <i>Bestellnummer Stecker</i>	Type <i>Ausführung</i>	Platings / <i>Oberflächen</i>		Current Rating <i>max. Strom</i>	Order Number Receptacles <i>Bestellnummer Steckdose</i>
		Mating Area <i>Steckbereich</i>	Termination Area <i>Anschlussbereich</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
FMP062P104	standard	0,8 μm Au	5 μm Sn	20 A	FMP062S104
FMP062P105	low cost	0,2 μm Au	5 μm Sn		FMP062S105
FMP235P104*	standard	0,8 μm Au	5 μm Sn	40 A	FMP235S104*

Other platings on request

*Andere Oberflächen auf Anfrage*

8 microinches =  $\approx 0,2 \mu\text{m}$

30 microinches =  $\approx 0,8 \mu\text{m}$

50 microinches =  $\approx 1,3 \mu\text{m}$

200 microinches =  $\approx 5 \mu\text{m}$

\* Contact with increased conductivity

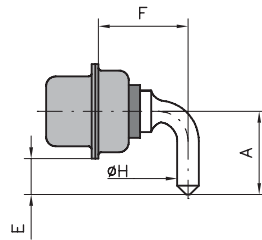
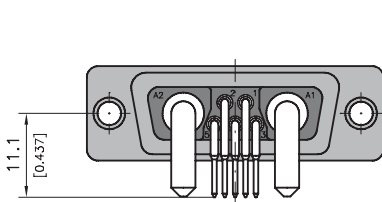
*\* Kontakt mit erhöhter Leitfähigkeit*

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

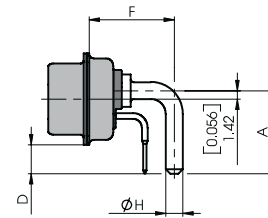
*Kontakte auch mit Rändel zur Fixierung im Steckverbinder erhältlich.*

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

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



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



Side view for shell size 5!  
*Seitenansicht für Gehäusegröße 5!*

Order Number <i>Bestellnummer</i>	A	B	D	E	F	Ø H	Drilling Ø <i>Bohrung 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)	6,30 (0.248)	—	4,8 (0.187)	11,80 (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)	3,20 (0.126)	3,50 (0.138)
FMP062...	14,0 (0.551)	8,85 (0.348)	4,9 (0.193)	—	14,35 (0.565)	2,85 (0.112)	3,15 (0.124)
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)



# PCB Hole Pattern for Connectors with Straight PCB Terminations

## Leiterplattenlochbild für Steckverbinder mit geradem Leiterplattenanschluss

All PCB hole patterns apply to pin connectors with straight PCB terminations (signal contacts P1). When using female connectors the hole pattern must be mirrored on the Y-axis.

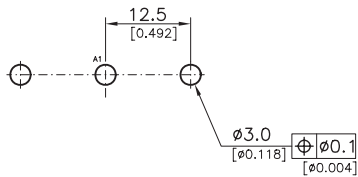
Measurements without tolerances are in accordance with DIN ISO 2768 m. For the required drilling diameters see page 67 and 69.

Alle Lochbilder gelten für Stiftsteckverbinder mit geradem Leiterplattenanschluss (Signalkontakte P1). Bei Verwendung von Buchsensteckverbindern muss das Lochbild an der Y-Achse gespiegelt werden.

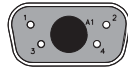
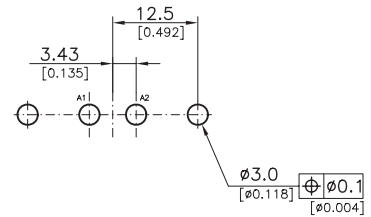
Maße ohne Toleranzangabe nach DIN ISO 2768 m. Erforderlicher Bohrungsdurchmesser siehe Seite 67 und 69.



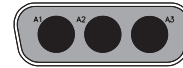
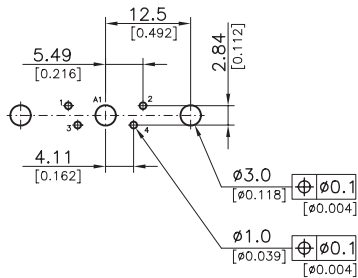
F1W1



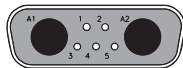
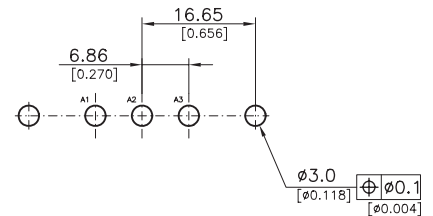
F2W2...C / FM2W2



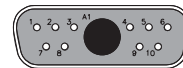
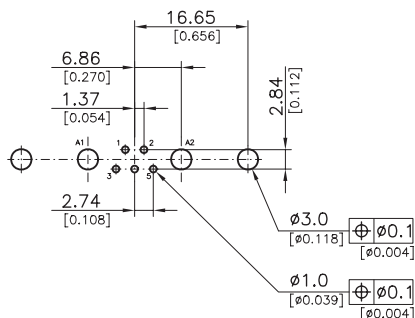
FM5W1



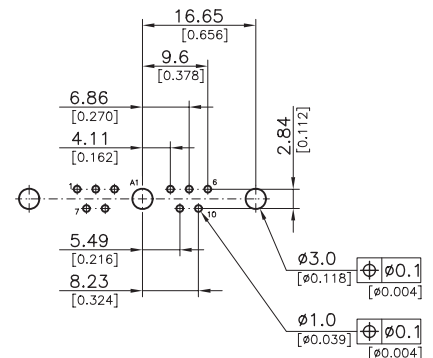
FM3W3 / F3W3...C



FM7W2



FM11W1





# PCB Hole Pattern for Connectors with Straight PCB Terminations

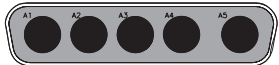
## Leiterplattenlochbild für Steckverbinder mit geradem Leiterplattenanschluss

All PCB hole patterns apply to pin connectors with straight PCB terminations (signal contacts P1). When using female connectors the hole pattern must be mirrored on the Y-axis.

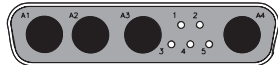
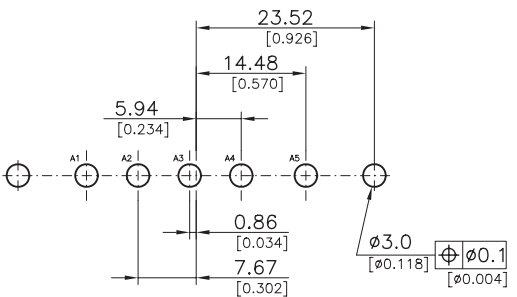
Measurements without tolerances are in accordance with DIN ISO 2768 m. For the required drilling diameters see page 67 and 69.

Alle Lochbilder gelten für Stiftsteckverbinder mit geradem Leiterplattenanschluss (Signalkontakte P1). Bei Verwendung von Buchsensteckverbindern muss das Lochbild an der Y-Achse gespiegelt werden.

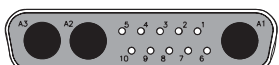
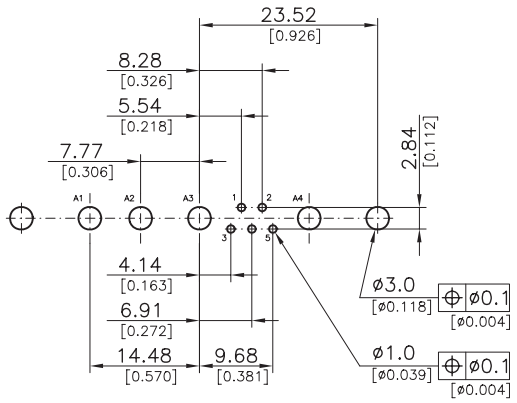
Maße ohne Toleranzangabe nach DIN ISO 2768 m. Erforderlicher Bohrungsdurchmesser siehe Seite 67 und 69.



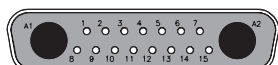
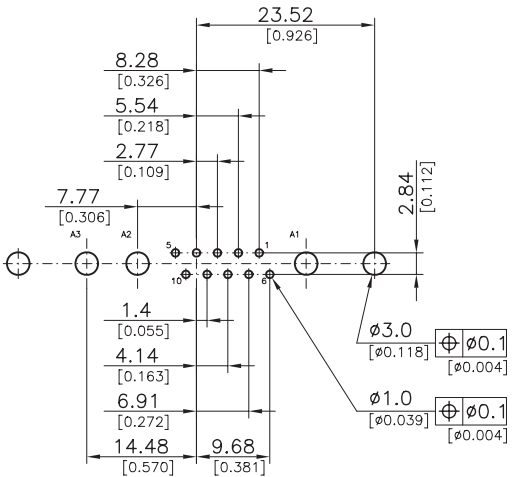
FM5W5



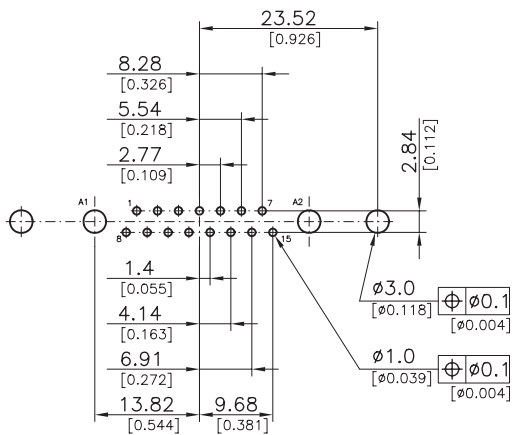
FM9W4



FM13W3



FM17W2







# PCB Hole Pattern for Connectors with Straight PCB Terminations

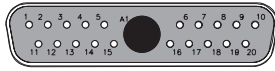
## Leiterplattenlochbild für Steckverbinder mit geradem Leiterplattenanschluss

All PCB hole patterns apply to pin connectors with straight PCB terminations (signal contacts P1). When using female connectors the hole pattern must be mirrored on the Y-axis.

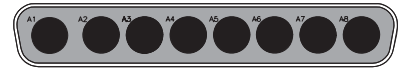
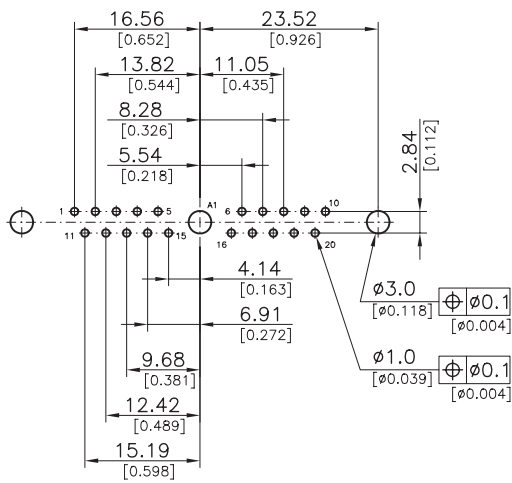
Measurements without tolerances are in accordance with DIN ISO 2768 m. For the required drilling diameters see page 67 and 69.

Alle Lochbilder gelten für Stiftsteckverbinder mit geradem Leiterplattenanschluss (Signalkontakte P1). Bei Verwendung von Buchsensteckverbindern muss das Lochbild an der Y-Achse gespiegelt werden.

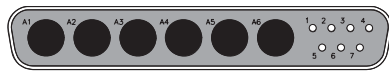
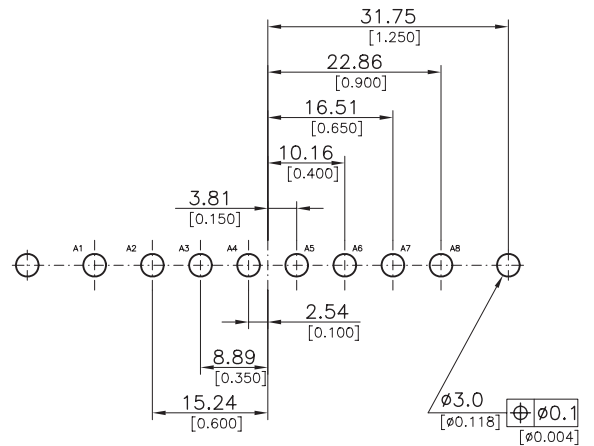
Maße ohne Toleranzangabe nach DIN ISO 2768 m. Erforderlicher Bohrungsdurchmesser siehe Seite 67 und 69.



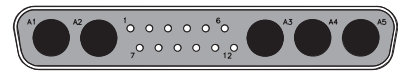
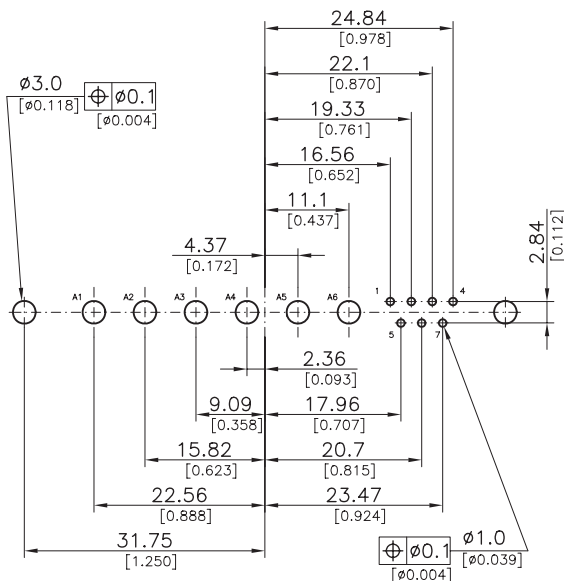
FM21W1



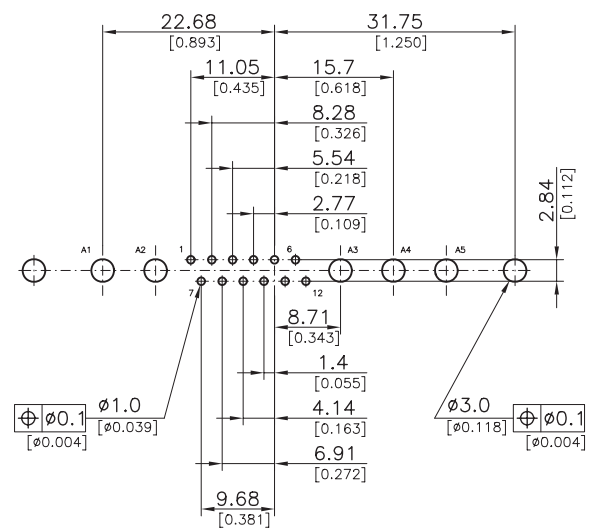
FM8W8



FM13W6



FM17W5





# PCB Hole Pattern for Connectors with Straight PCB Terminations

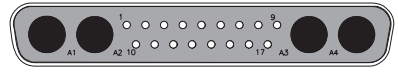
## Leiterplattenlochbild für Steckverbinder mit geradem Leiterplattenanschluss

All PCB hole patterns apply to pin connectors with straight PCB terminations (signal contacts P1). When using female connectors the hole pattern must be mirrored on the Y-axis.

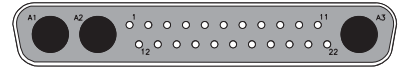
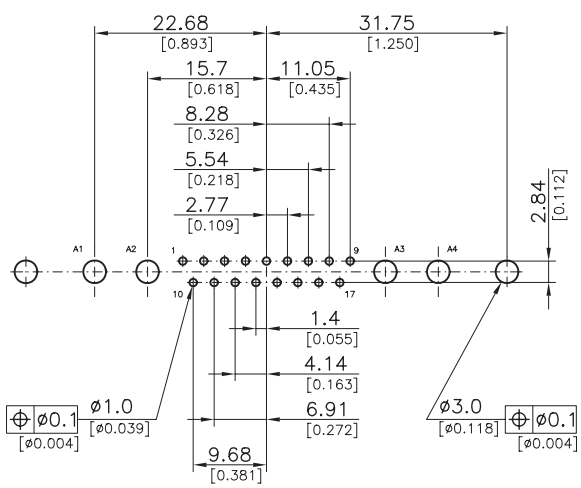
Measurements without tolerances are in accordance with DIN ISO 2768 m. For the required drilling diameters see page 67 and 69.

Alle Lochbilder gelten für Stiftsteckverbinder mit geradem Leiterplattenanschluss (Signalkontakte P1). Bei Verwendung von Buchsensteckverbindern muss das Lochbild an der Y-Achse gespiegelt werden.

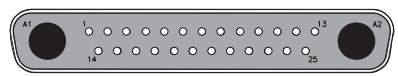
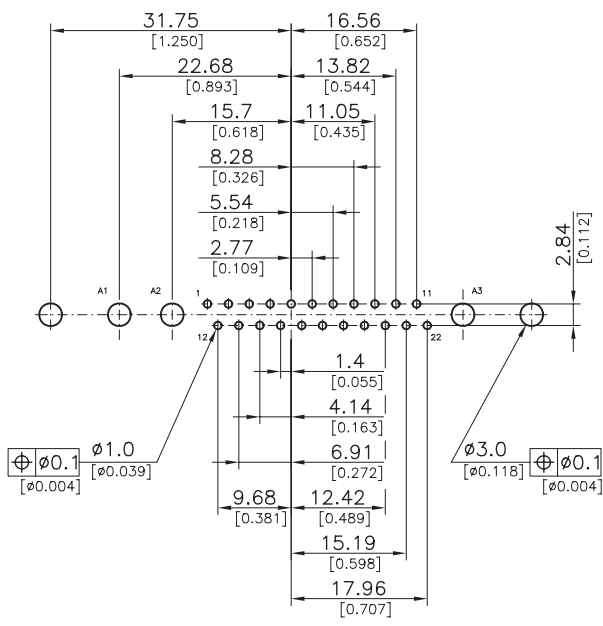
Maße ohne Toleranzangabe nach DIN ISO 2768 m. Erforderlicher Bohrungsdurchmesser siehe Seite 67 und 69.



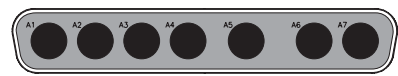
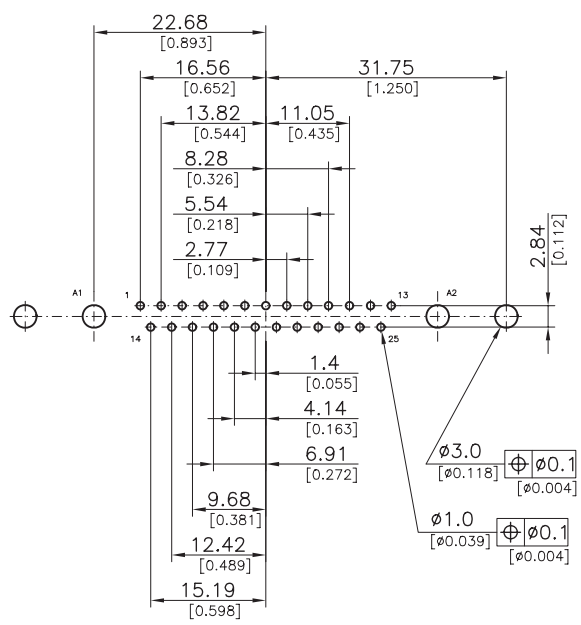
FM21WA4



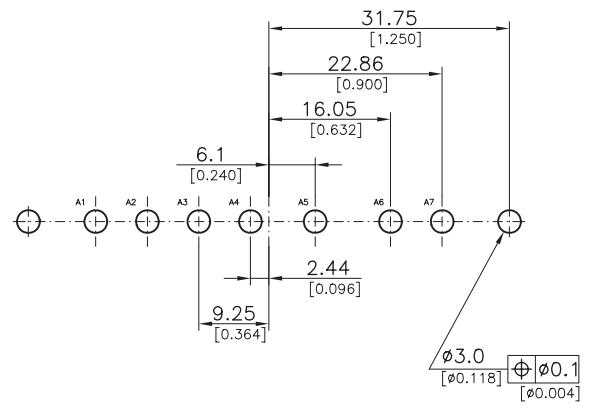
FM25W3



FM27W2



F7W7





# PCB Hole Pattern for Connectors with Straight PCB Terminations

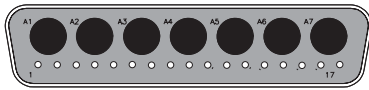
## Leiterplattenlochbild für Steckverbinder mit geradem Leiterplattenanschluss

All PCB hole patterns apply to pin connectors with straight PCB terminations (signal contacts P1). When using female connectors the hole pattern must be mirrored on the Y-axis.

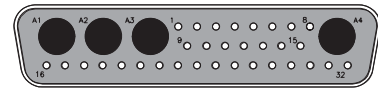
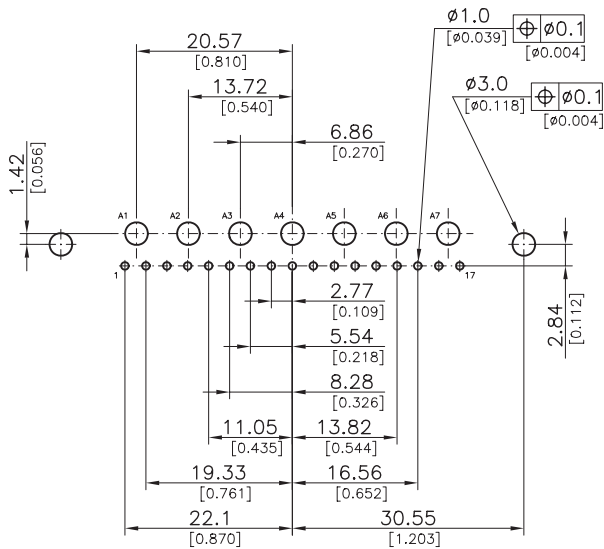
Measurements without tolerances are in accordance with DIN ISO 2768 m. For the required drilling diameters see page 67 and 69.

Alle Lochbilder gelten für Stiftsteckverbinder mit geradem Leiterplattenanschluss (Signalkontakte P1). Bei Verwendung von Buchsensteckverbindern muss das Lochbild an der Y-Achse gespiegelt werden.

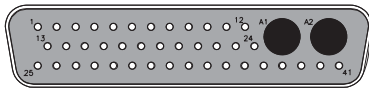
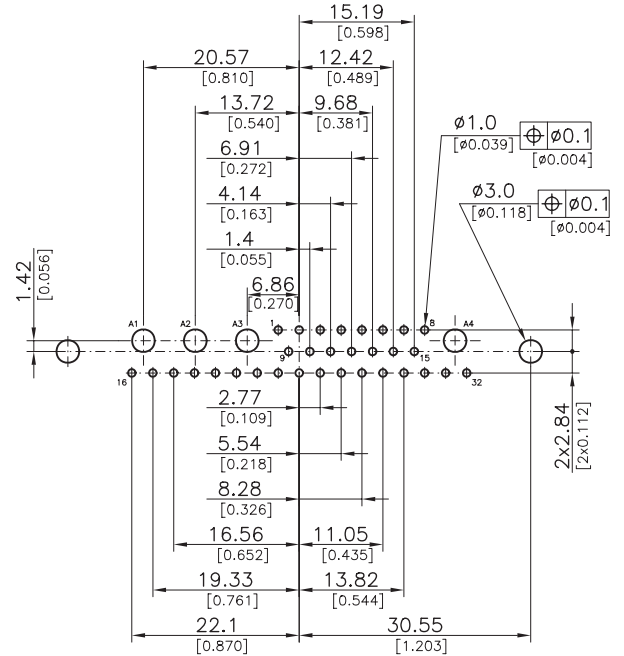
Maße ohne Toleranzangabe nach DIN ISO 2768 m. Erforderlicher Bohrungsdurchmesser siehe Seite 67 und 69.



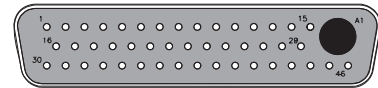
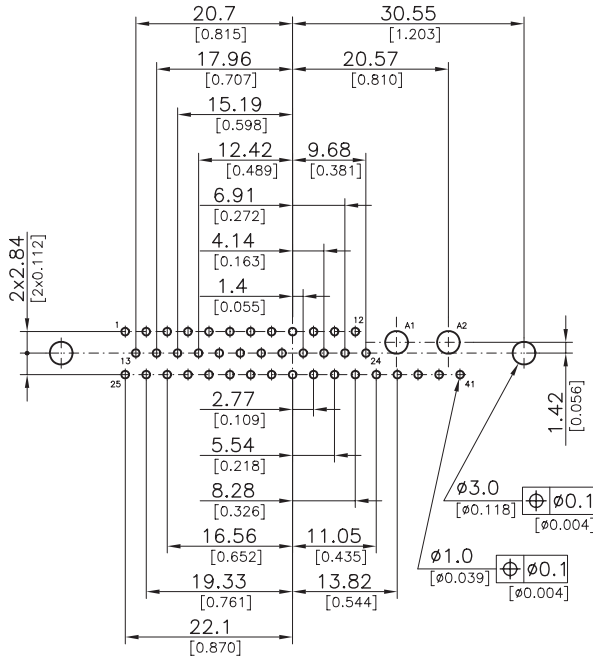
FM24W7



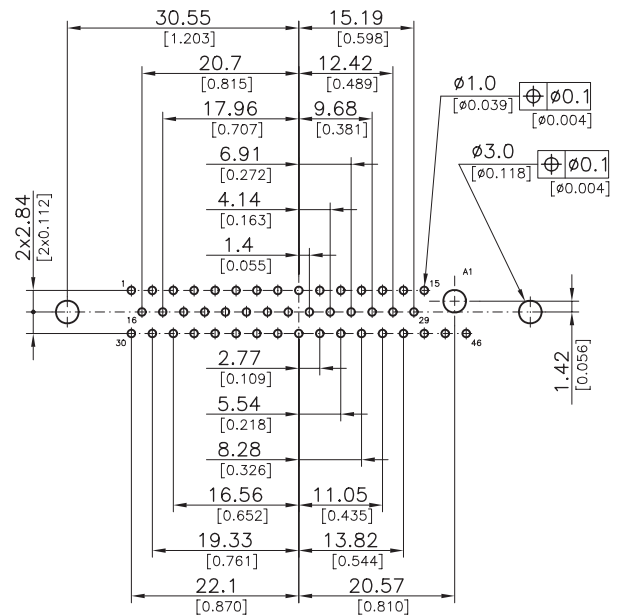
FM36W4



FM43W2



FM47W1





# PCB Hole Pattern for Connectors with Right Angled PCB Terminations

## Leiterplattenlochbild für Steckverbinder mit abgewinkeltm Leiterplattenanschluss

All PCB hole patterns apply to male connectors with right angled PCB terminations (signal contacts P5) with metal brackets F1080-13B. When using female connectors the hole pattern must be mirrored on the Y-axis.

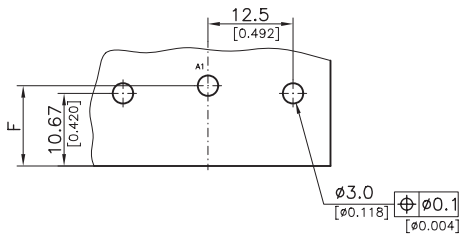
Measurements without tolerances are in accordance with DIN ISO 2768 m. For the required dimension F and drilling diameters see page 68 and 69.

Alle Lochbilder gelten für Stiftsteckverbinder mit abgewinkeltm Leiterplattenanschluss (Signalkontakte P5) und Metallwinkel F1080-13B. Bei Verwendung von Buchsensteckverbindern muss das Lochbild an der Y-Achse gespiegelt werden.

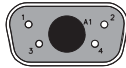
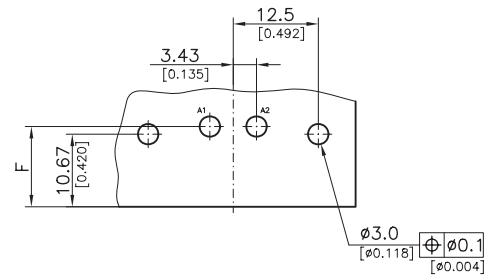
Maße ohne Toleranzangabe nach DIN ISO 2768 m. Erforderliches Maß F und Bohrungsdurchmesser siehe Seite 68 und 69.



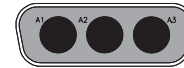
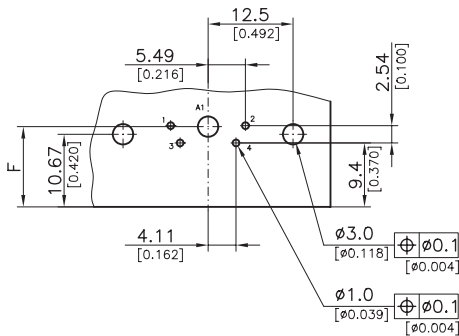
F1W1



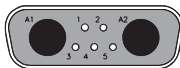
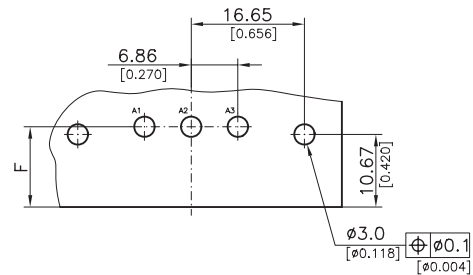
F2W2...C / FM2W2



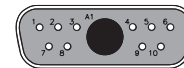
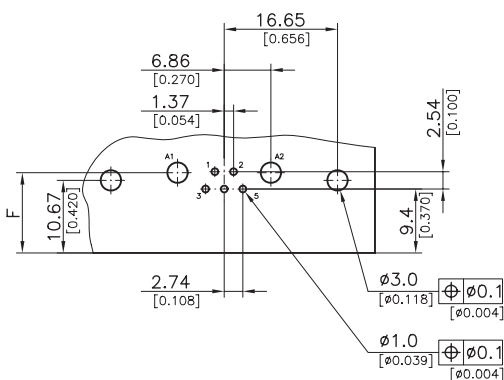
FM5W1



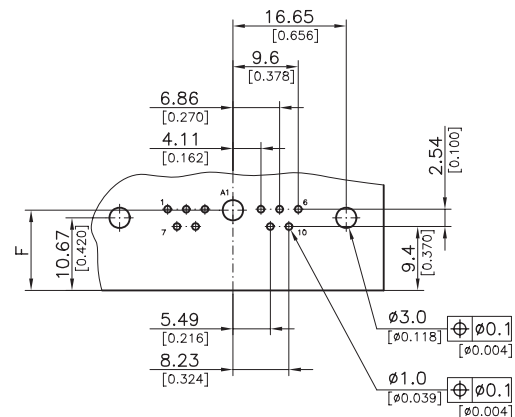
FM3W3 / F3W3...C



FM7W2



FM11W1





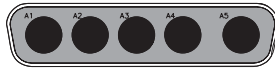
# PCB Hole Pattern for Connectors with Right Angled PCB Terminations

## Leiterplattenlochbild für Steckverbinder mit abgewinkelttem Leiterplattenanschluss

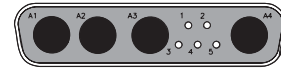
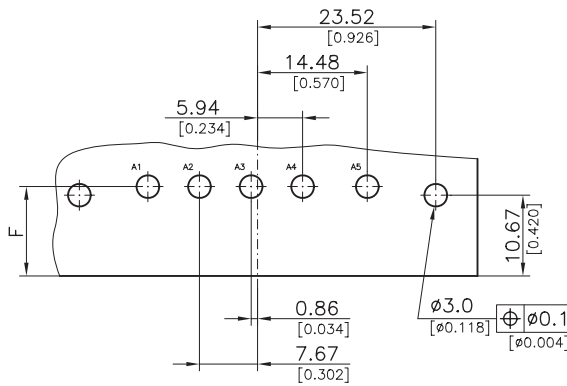
All PCB hole patterns apply to male connectors with right angled PCB terminations (signal contacts P5) with metal brackets F1080-13B. When using female connectors the hole pattern must be mirrored on the Y-axis.

Measurements without tolerances are in accordance with DIN ISO 2768 m. For the required dimension F and drilling diameters see page 68 and 69.

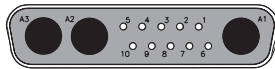
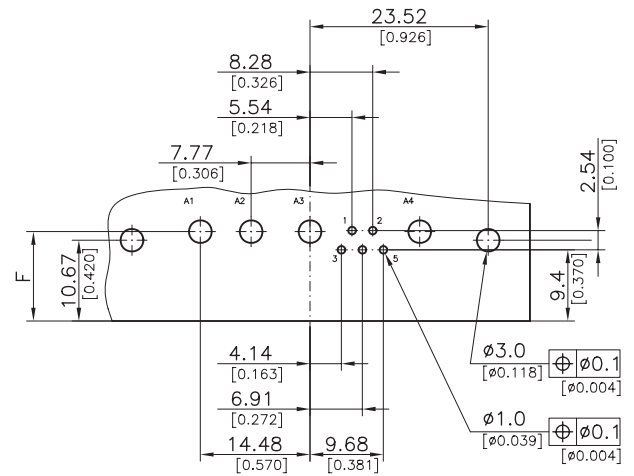
Alle Lochbilder gelten für Stiftsteckverbinder mit abgewinkelttem Leiterplattenanschluss (Signalkontakte P5) und Metallwinkel F1080-13B. Bei Verwendung von Buchsensteckverbindern muss das Lochbild an der Y-Achse gespiegelt werden. Maße ohne Toleranzangabe nach DIN ISO 2768 m. Erforderliches Maß F und Bohrungsdurchmesser siehe Seite 68 und 69.



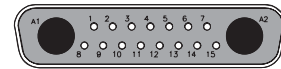
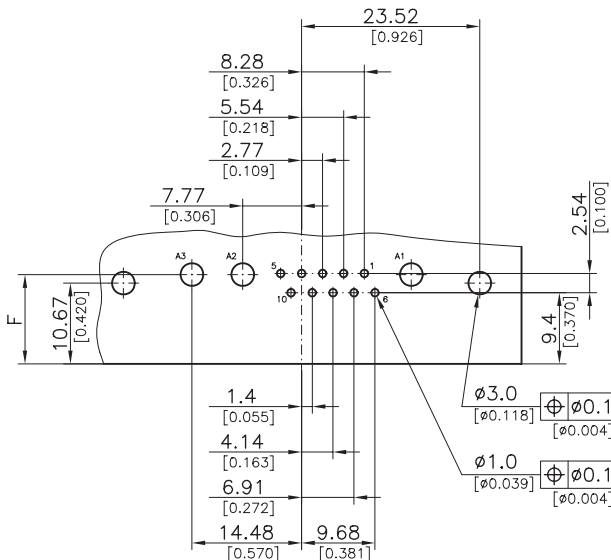
FM5W5



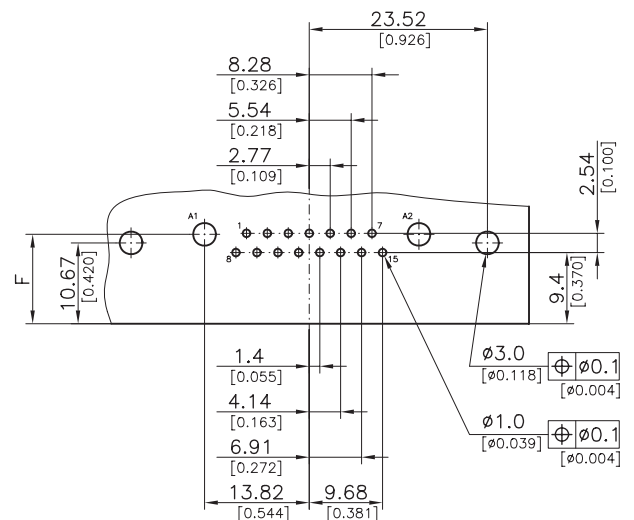
FM9W4



FM13W3



FM17W2





# PCB Hole Pattern for Connectors with Right Angled PCB Terminations

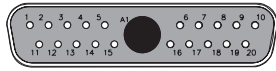
## Leiterplattenlochbild für Steckverbinder mit abgewinkelttem Leiterplattenanschluss

All PCB hole patterns apply to male connectors with right angled PCB terminations (signal contacts P5) with metal brackets F1080-13B. When using female connectors the hole pattern must be mirrored on the Y-axis.

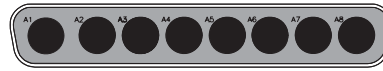
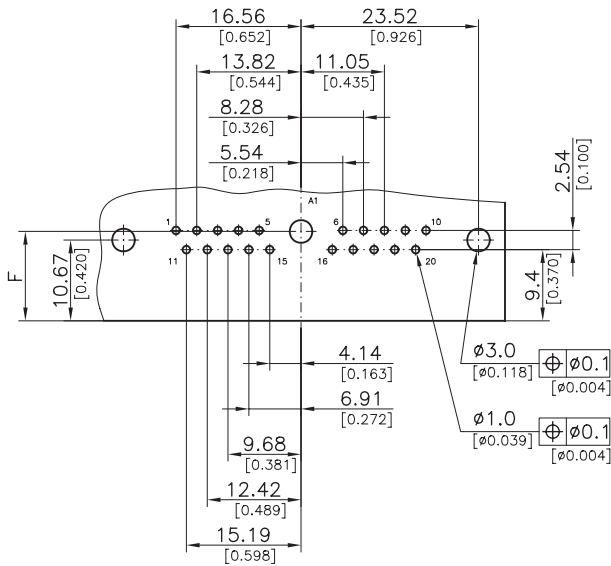
Measurements without tolerances are in accordance with DIN ISO 2768 m. For the required dimension F and drilling diameters see page 68 and 69.

Alle Lochbilder gelten für Stiftsteckverbinder mit abgewinkelttem Leiterplattenanschluss (Signalkontakte P5) und Metallwinkel F1080-13B. Bei Verwendung von Buchsensteckverbindern muss das Lochbild an der Y-Achse gespiegelt werden.

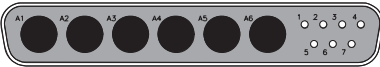
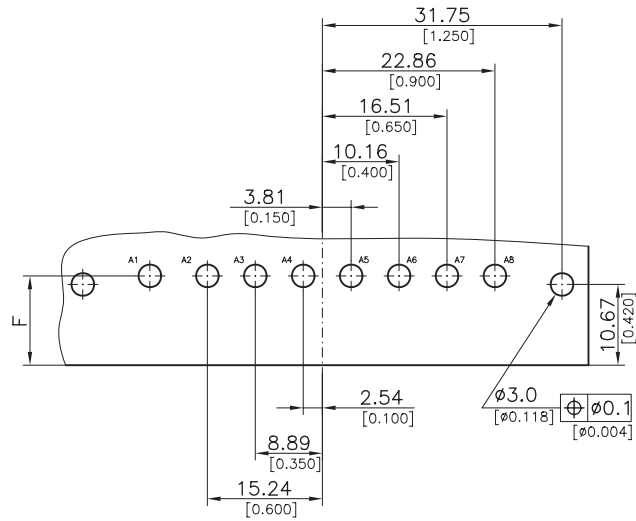
Maße ohne Toleranzangabe nach DIN ISO 2768 m. Erforderliches Maß F und Bohrungsdurchmesser siehe Seite 68 und 69.



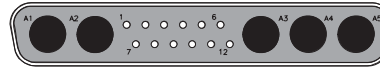
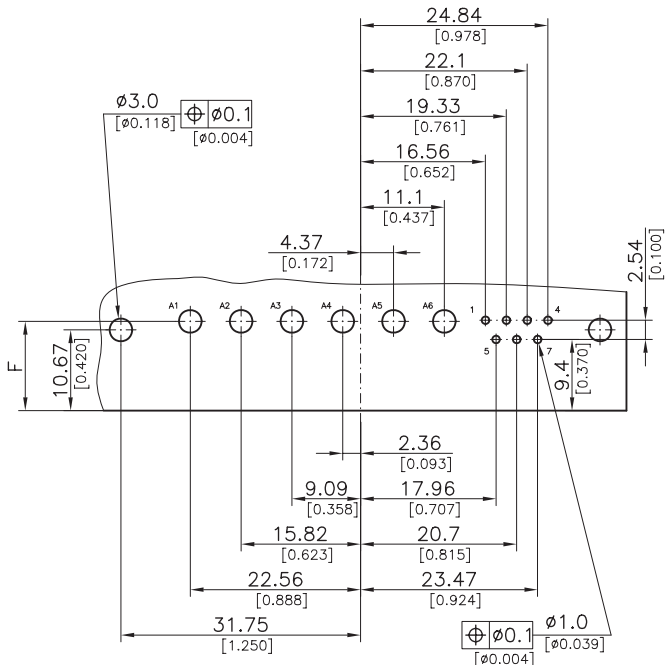
FM21W1



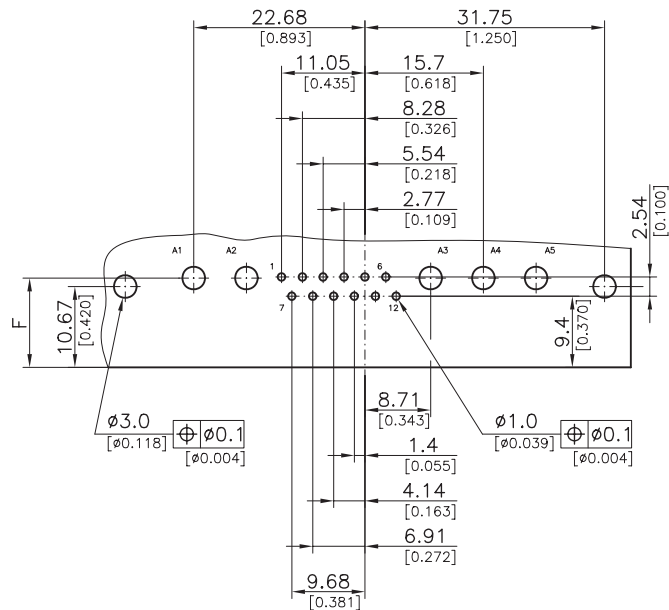
FM8W8



FM13W6



FM17W5





# PCB Hole Pattern for Connectors with Right Angled PCB Terminations

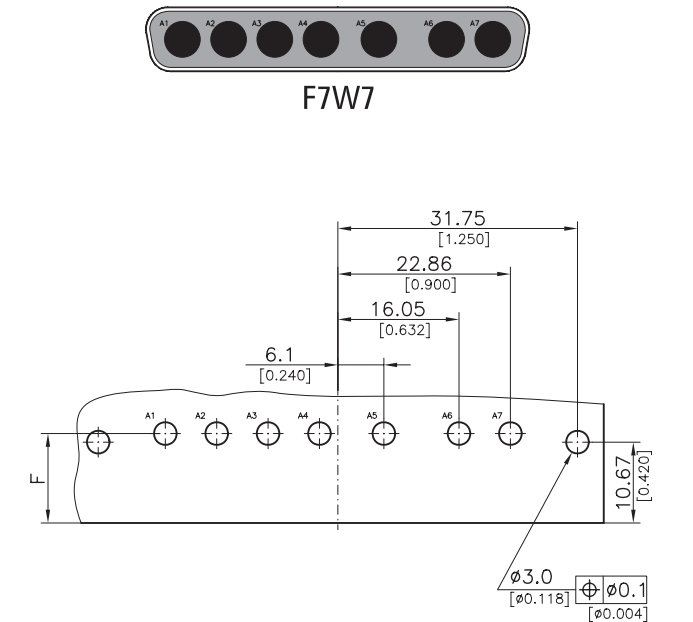
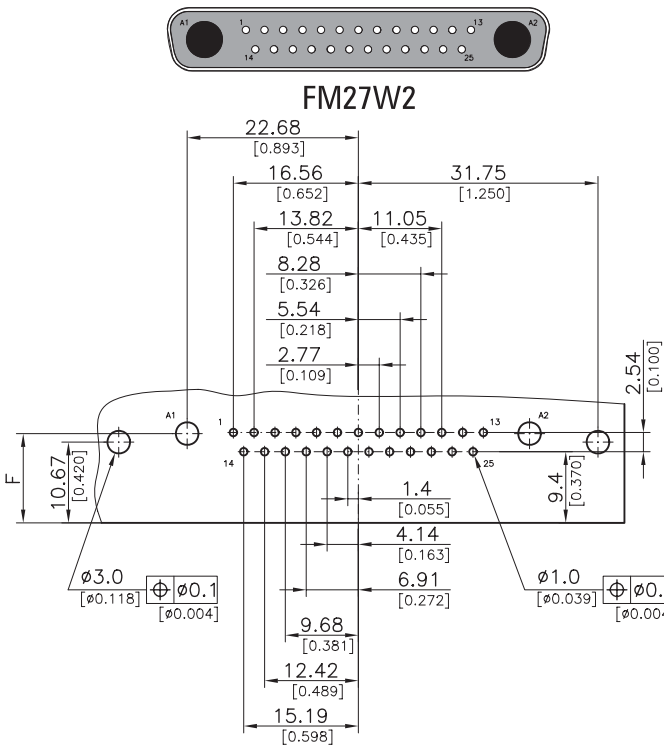
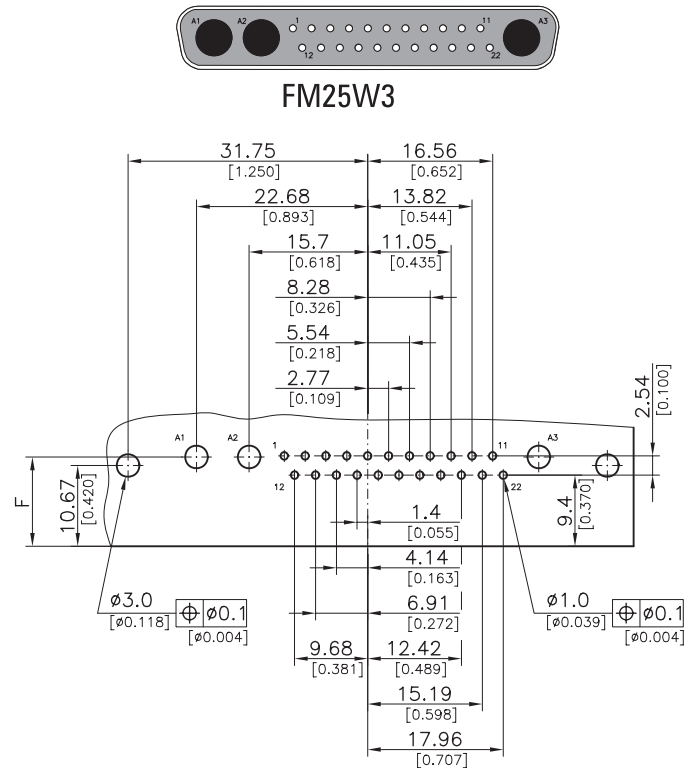
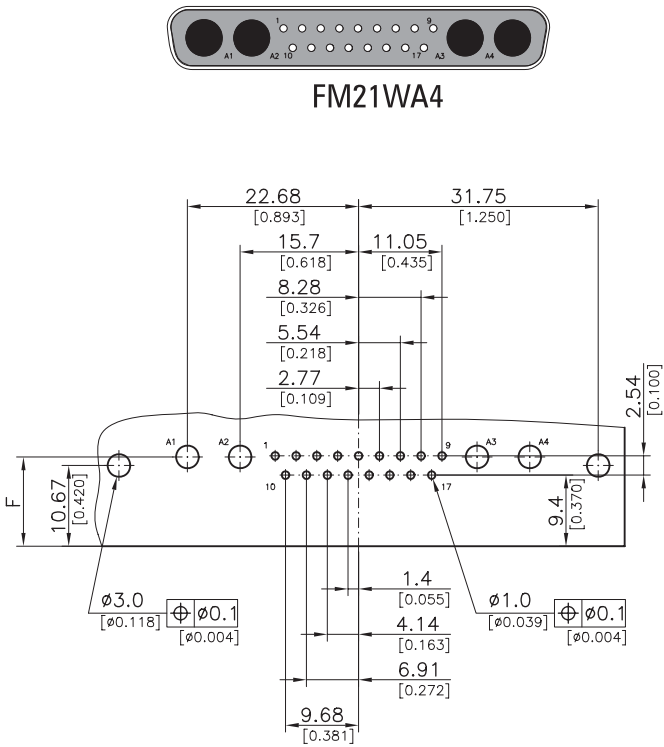
## Leiterplattenlochbild für Steckverbinder mit abgewinkelttem Leiterplattenanschluss

All PCB hole patterns apply to male connectors with right angled PCB terminations (signal contacts P5) with metal brackets F1080-13B. When using female connectors the hole pattern must be mirrored on the Y-axis.

Measurements without tolerances are in accordance with DIN ISO 2768 m. For the required dimension F and drilling diameters see page 68 and 69.

Alle Lochbilder gelten für Stiftsteckverbinder mit abgewinkelttem Leiterplattenanschluss (Signalkontakte P5) und Metallwinkel F1080-13B. Bei Verwendung von Buchsensteckverbindern muss das Lochbild an der Y-Achse gespiegelt werden.

Maße ohne Toleranzangabe nach DIN ISO 2768 m. Erforderliches Maß F und Bohrungsdurchmesser siehe Seite 68 und 69.





# PCB Hole Pattern for Connectors with Right Angled PCB Terminations

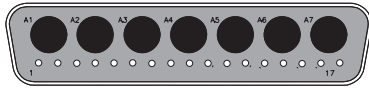
## Leiterplattenlochbild für Steckverbinder mit abgewinkelttem Leiterplattenanschluss

All PCB hole patterns apply to male connectors with right angled PCB terminations (signal contacts P5) with metal brackets F1080-23. When using female connectors the hole pattern must be mirrored on the Y-axis.

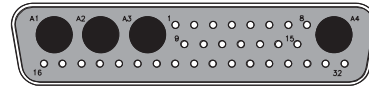
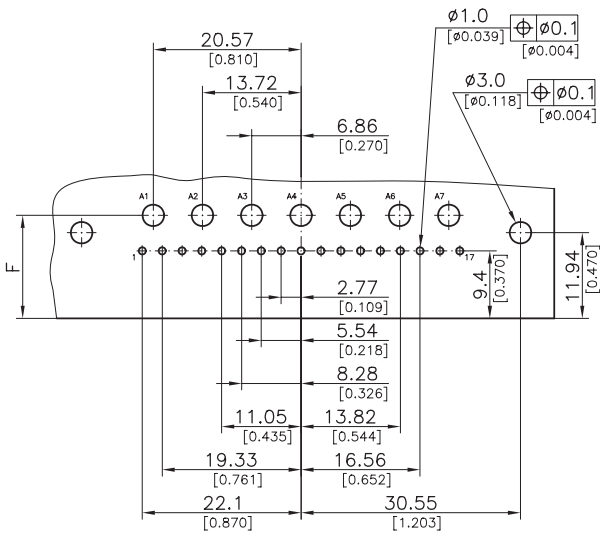
Measurements without tolerances are in accordance with DIN ISO 2768 m. For the required dimension F and drilling diameters see page 68 and 69.

Alle Lochbilder gelten für Stiftsteckverbinder mit abgewinkelttem Leiterplattenanschluss (Signalkontakte P5) und Metallwinkel F1080-23. Bei Verwendung von Buchsensteckverbindern muss das Lochbild an der Y-Achse gespiegelt werden.

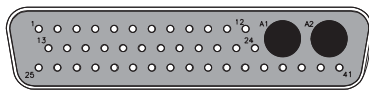
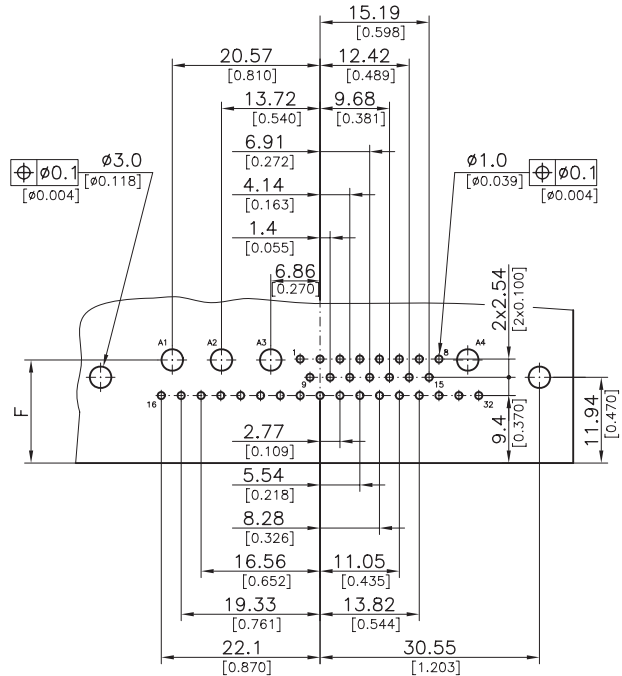
Maße ohne Toleranzangabe nach DIN ISO 2768 m. Erforderliches Maß F und Bohrungsdurchmesser siehe Seite 68 und 69.



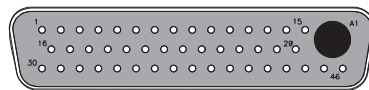
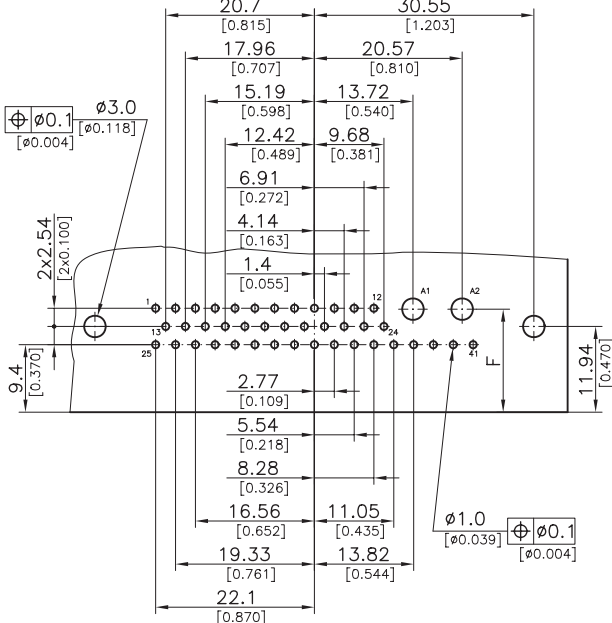
FM24W7



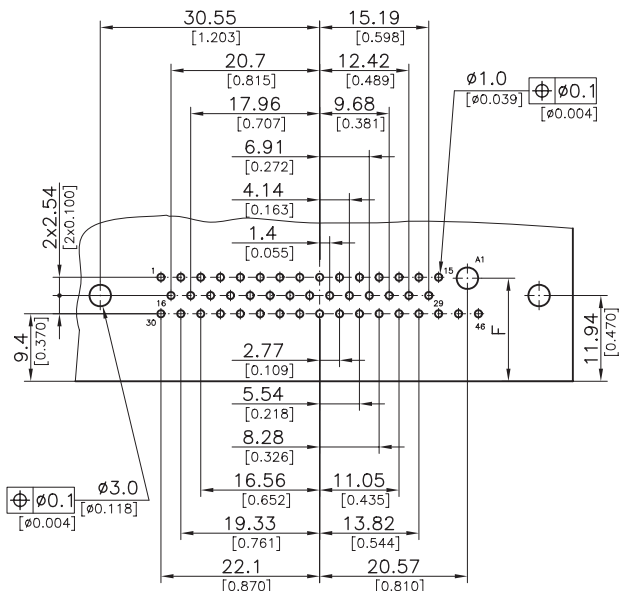
FM36W4



FM43W2



FM47W1

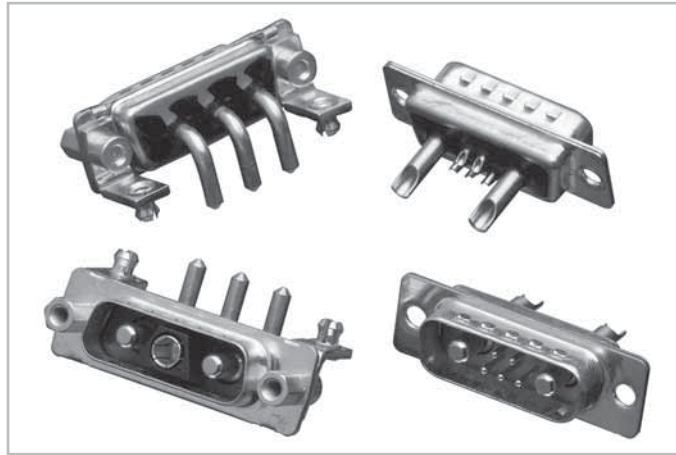






# D-Sub Mixed Layout Filter Connectors with High Power Contacts

## D-Sub Mixed Layout Filtersteckverbinder mit Hochstromkontakten

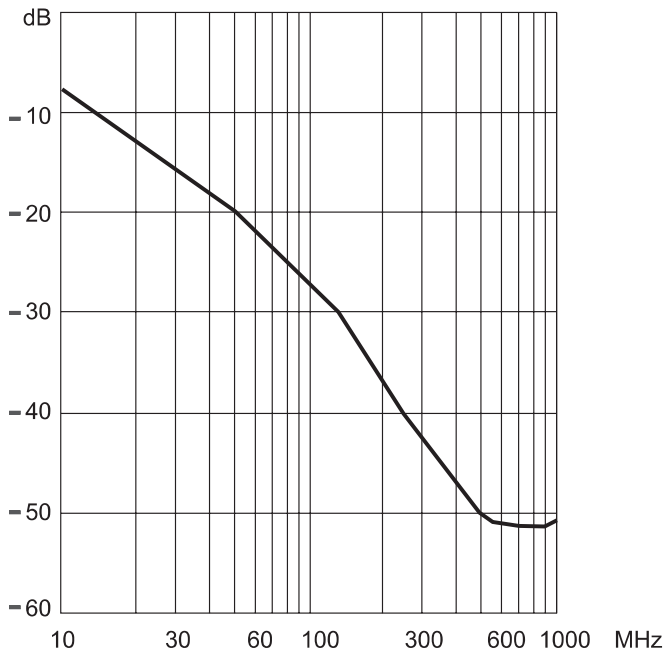


In addition to D-Sub standard filter connectors, FCT can now supply **mixed layout and mono block connectors in a filtered version**. According to requirement high power contacts and - depending on their hole patterns - also signed contacts can be filtered. Ceramic feed through capacitors are used as filters. The capacitors range from 100 pF (Standard capacity 1 nF) up to 56 nF. All filter connectors are available in male and female versions with varying terminations (PCB and solder pot). A multiple supply of accessories is available in the usual FCT wide range. Modifications and selective filtering are also possible.

*Neben den gefilterten D-Sub Standardsteckverbindern sind bei FCT auch **Mischpulleisten und Monoblocksteckverbinder in gefilterter Version** erhältlich. Je nach Anforderung können die Hochstromkontakte und - abhängig vom Polbild - auch die Signalkontakte gefiltert werden. Als Filter dienen keramische Durchführungskondensatoren. Die Kapazitäten reichen von 100 pF (Standardkapazität: 1 nF) bis zu 56 nF. Alle Filtersteckverbinder sind als Stift- und Buchsenversion mit verschiedenen Anschlussarten (Einlöt- und Löttopfversion) erhältlich. Das vielfältige Angebot an Zubehör ist in gewohntem FCT-Umfang lieferbar. Sonderanfertigungen wie selektive Filterung sind möglich.*

### Typical Loss vs. Frequency (50 Ohm line, 1 nF)

#### Typisches Dämpfungsverhalten (50 Ohm System, 1 nF)



### Features

#### Merkmale

- Facilitates the development of EMI/EMC approved designs
- Space saving
- Tin plated steel shells (with dimples for higher frequencies - male connectors only)
- Low pass filter with minimal attenuation in the transmission band
- Ceramic capacitor
- Standard versions and many modified designs available
- The ground plane enables additional RF shielding
- *erleichtert EMV-gerechtes Design*
- *platzsparend*
- *verzinnstes Stahlgehäuse (bei Stiftsteckverbindern mit Kontaktnoppen für hohe Frequenzen)*
- *Tiefpassfilter mit minimaler Dämpfung im Durchlaßbereich*
- *Keramikkondensator*
- *Standardausführungen und Sonderanfertigungen verfügbar*
- *zusätzliche HF-Dichtheit durch „ground plane“*