



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 66 onwards) <i>Maximaler Kontaktstrom (DC bei 20°C Umgebungstemperatur) (siehe Seite 66 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

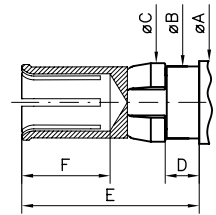
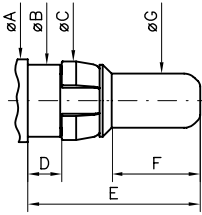
Hochstromkontakte, Abmessungen Steckbereich

Plug

Stecker

Socket

Buchse



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

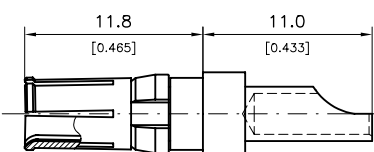
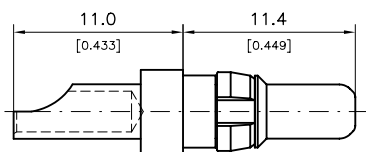
Modification U* please see page 26

Modifikation U siehe Seite 26*



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
FMP005P204	standard	AuroPur	0,2 µm Au	AWG 16 - 20	10 A	FMP005S204
FMP005P203	low cost	AuroPur	5 µm Sn			FMP005S203
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

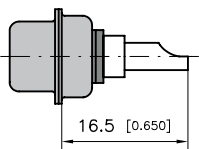
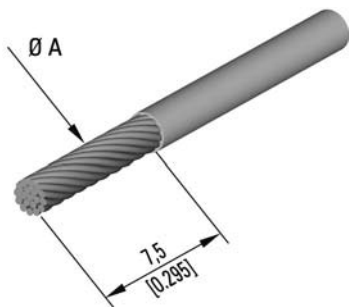
Other platings on request
Andere Oberflächen auf Anfrage

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

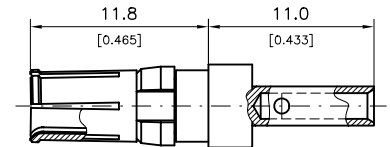
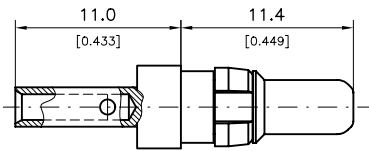


Order Number <i>Bestellnummer</i>	Ø A max.	Max. Metrical Cross-Section Area (sq.in.) <i>max. metrische Querschnittsfläche (mm²)</i>
FMP005...	1,8 (0.071)	2,54 (0.004)
FMP006...	2,7 (0.106)	5,73 (0.009)
FMP105...	3,5 (0.138)	9,60 (0.015)
FMP007...	4,8 (0.189)	18,10 (0.028)



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
FMP002P204	standard	AuroPur	0,2 µm Au	AWG 16 - 20	10 A	FMP002S204
FMP003P103	standard	0,8 µm Au	0,2 µm Au			FMP003S103
FMP003P106	low cost	0,2 µm Au	0,2 µm Au	AWG 12 - 14	20 A	FMP003S106
FMP053P103	standard	0,8 µm Au	0,2 µm Au			FMP053S103
FMP053P106	low cost	0,2 µm Au	0,2 µm Au	AWG 10 - 12	30 A	FMP053S106
FMP004P103	standard	0,8 µm Au	0,2 µm Au			FMP004S103
FMP004P106	low cost	0,2 µm Au	0,2 µm Au	AWG 8 - 10	40 A	FMP004S106

Other platings on request / *Andere Oberflächen auf Anfrage*

Tools from page 94 onwards / *Werkzeuge ab Seite 94 ff.*

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

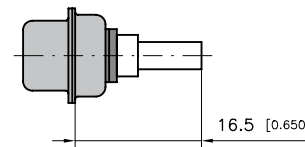
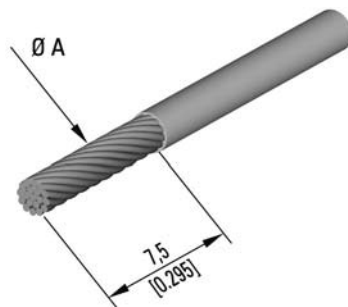
30 microinches = $\approx 0,8 \mu\text{m}$

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

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

Dimensions

Abmessungen

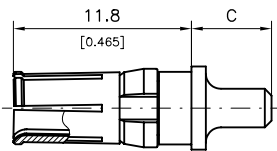
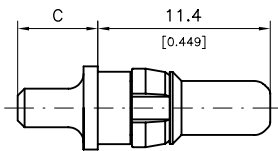


Order Number <i>Bestellnummer</i>	Ø A min.	Ø A max.	Min. Metrical Cross-Section Area <i>min. metrische Querschnittsfläche</i>	Max. Metrical Cross-Section Area <i>max. metrische Querschnittsfläche</i>
FMP002...	0,9 (0.035)	1,7 (0.067)	0,64 mm ² (0.001 sq.in.)	2,27 mm ² (0.004 sq.in.)
FMP003...	1,8 (0.071)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



High Power Contacts, Straight PCB Termination

Hochstromkontakte, gerader Leiterplattenanschluss

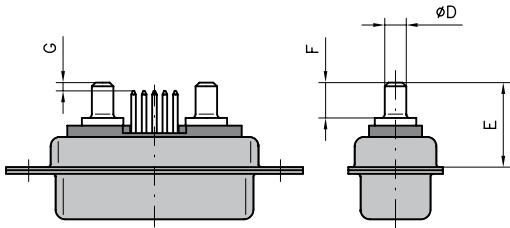


Order Number Plug <i>Bestellnummer Stecker</i>	Type <i>Ausführung</i>	Platings / <i>Oberflächen</i>		Current Rating <i>max. Strom</i>	Order Number Receptacles <i>Bestellnummer Steckdose</i>
		Mating Area <i>Steckbereich</i>	Termination Area <i>Anschlussbereich</i>		
FMP010P104	standard	0,8 µm Au	5 µm Sn	20 A	FMP010S104
FMP010P105	low cost	0,2 µm Au	5 µm Sn		FMP010S105
FMP010P203	low cost	AuroPur	5 µm Sn		FMP010S203
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

Other platings on request 8 microinches = $\approx 0,2 \mu\text{m}$ 50 microinches = $\approx 1,3 \mu\text{m}$
Andere Oberflächen auf Anfrage 30 microinches = $\approx 0,8 \mu\text{m}$ 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



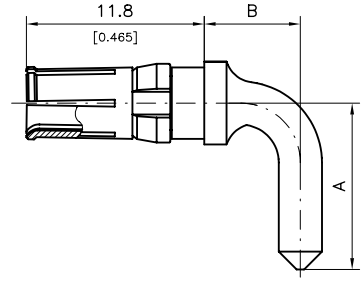
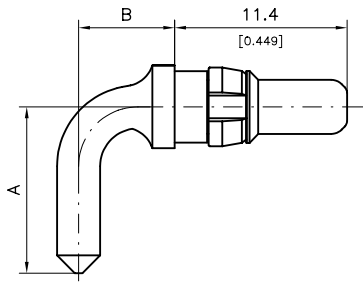
Side view without signal contacts!
Seitenansicht ohne Signalkontakte!

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 μ m Au	5 μ m Sn	20 A	FMP008S104
FMP008P105	low cost	0,2 μ m Au	5 μ m Sn		FMP008S105
FMP008P203	low cost	AuroPur	5 μ m Sn		FMP008S203
FMP009P104	standard	0,8 μ m Au	5 μ m Sn	40 A	FMP009S104
FMP009P105	low cost	0,2 μ m Au	5 μ m Sn		FMP009S105
FMP021P104	standard	0,8 μ m Au	5 μ m Sn	30 A	FMP021S104
FMP021P105	low cost	0,2 μ m Au	5 μ m Sn		FMP021S105
FMP062P104	standard	0,8 μ m Au	5 μ m Sn	20 A	FMP062S104
FMP062P105	low cost	0,2 μ m Au	5 μ m Sn		FMP062S105
FMP235P104*	standard	0,8 μ m Au	5 μ m Sn		FMP235S104*

Other platings on request

Andere Oberflächen auf Anfrage

8 microinches = $\approx 0,2 \mu$ m

30 microinches = $\approx 0,8 \mu$ m

50 microinches = $\approx 1,3 \mu$ m

200 microinches = $\approx 5 \mu$ m

* Contact with increased conductivity

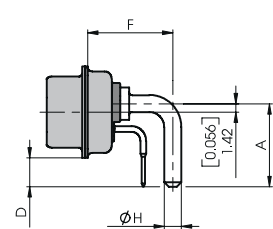
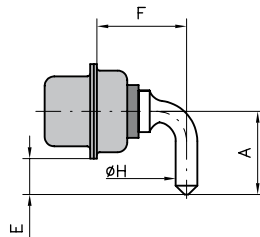
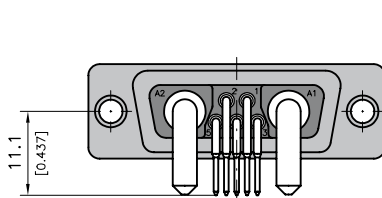
** Kontakt mit erhöhter Leitfähigkeit*

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!

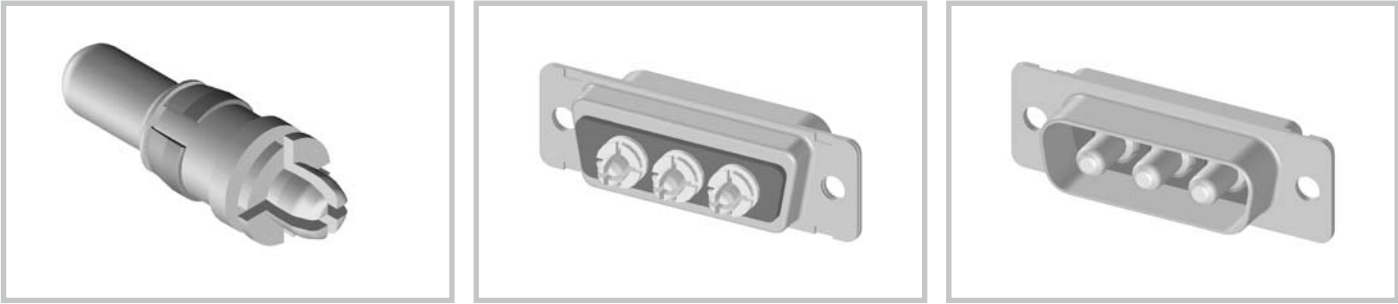
Side view for shell size 5!
Seitenansicht für Gehäusegröße 5!

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)



High Power Contacts, Straight PCB Termination with Flexible Press-fit

Hochstromkontakte, gerader Leiterplattenanschluss mit flexibler Einpresszone



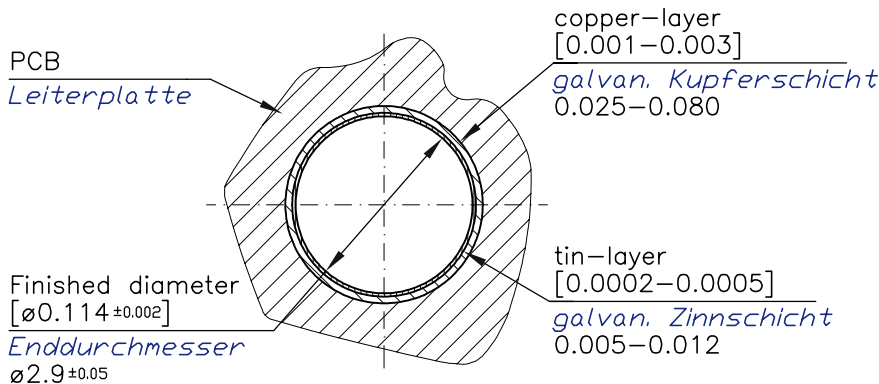
Features

Merkmale

- For PCBs up to 0.078 " (lesser thickness available on request)
- Suitable for multi layer PCBs
- Quick solder-free assembly
- Low insertion forces
- For use up to 30 A
- High retention forces
- Für Leiterplatten ab 2 mm (kleinere Stärken auf Anfrage)
- Geeignet für Multi Layer Leiterplatten
- Schnelle lötfreie Montage
- Geringe Einbaukräfte
- Verwendbar bis 30 A
- Hohe Haltekräfte

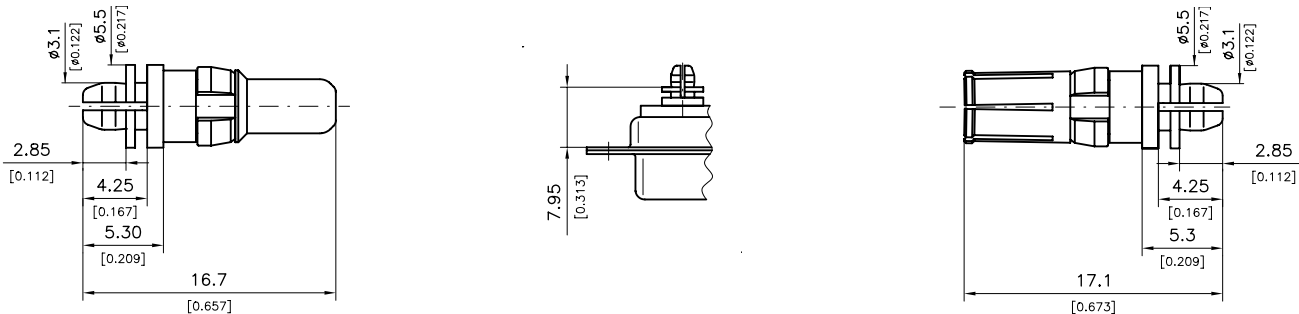
Longitudinal Section PCB

Längsschnitt durch die Leiterplatte



Straight High Power Contact with Flexible Press-fit

Gerader Hochstromkontakt mit flexibler Einpresszone



Order Number Plug Bestellnummer Stecker		Platings / Oberflächen		Current Rating max. Strom	Order Number Receptacles Bestellnummer Steckdose	
Type Ausführung		Mating Area Steckbereich	Termination Area Anschlussbereich			
FMP094P141	standard	0,8 µm Au	1 µm Sn	30 A	FMP094S141	
FMP094P140	low cost	0,2 µm Au	1 µm Sn		FMP094S140	

Other platings on request

Andere Oberflächen auf Anfrage

8 microinches = ≈0,2 µm

30 microinches = ≈0,8 µm

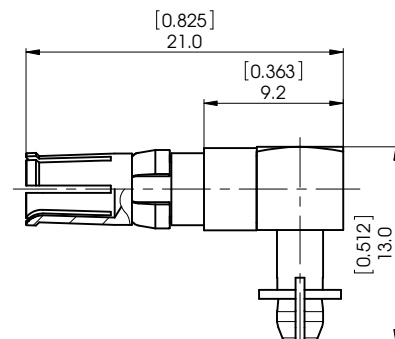
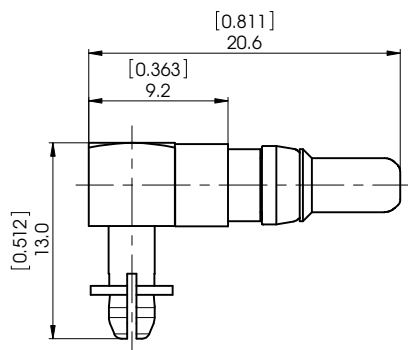
50 microinches = ≈1,3 µm

200 microinches = ≈5 µm



High Power Contacts, Right Angled PCB Termination with Flexible Press-fit

Hochstromkontakte, abgewinkelter Leiterplattenanschluss mit flexibler Einpresszone



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>		
FMP133P141	standard	0,8 μ m Au	1 μ m Sn	30 A	FMP133S141
FMP133P140	low cost	0,2 μ m Au	1 μ m Sn		FMP133S140

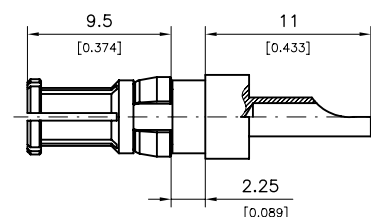
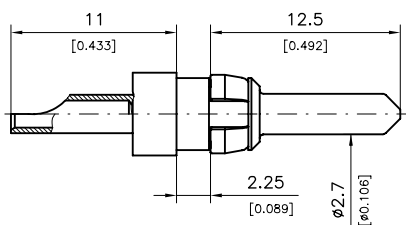
Other platings on request
Andere Oberflächen auf Anfrage

8 microinches = $\approx 0,2 \mu$ m
30 microinches = $\approx 0,8 \mu$ m

50 microinches = $\approx 1,3 \mu$ m
200 microinches = $\approx 5 \mu$ m

High Power Contacts, Early Make Late Break, $\varnothing$ 2.7 mm ($\varnothing$ 0.106")

Hochstromkontakte, Early make Late break, $\varnothing$ 2,7 mm

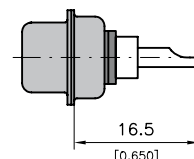
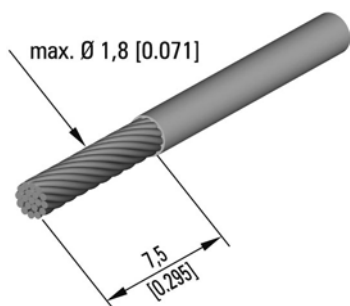


Order Number Plug <i>Bestellnummer Stecker</i>	Type <i>Ausführung</i>	Platings / <i>Oberflächen</i>		Current Rating <i>max. Strom</i>	Wire Size <i>Kabelgröße</i>	Order Number Receptacles <i>Bestellnummer Steckdose</i>
		Mating Area <i>Steckbereich</i>	Termination Area <i>Anschlussbereich</i>			
FMA026P103	standard	0,8 μ m Au	0,2 μ m Au	10 A	AWG 16 - 20	FMA026S103
FMA026P105	low cost	0,2 μ m Au	5 μ m Sn			FMA026S105
FMA026P203	low cost	AuroPur	5 μ m Sn	10 A	AWG 16 - 20	FMA026S203

Other platings on request
Andere Oberflächen auf Anfrage

8 microinches = $\approx 0,2 \mu$ m
30 microinches = $\approx 0,8 \mu$ m

50 microinches = $\approx 1,3 \mu$ m
200 microinches = $\approx 5 \mu$ m





Connectors with High Power Contacts with Semi Flexible Press-fit

Steckverbinder mit Hochstromkontakten mit semiflexibler Einpresszone

Dimensions on an example connector with hole pattern 5W5 and high power contacts FMP334S1041R.

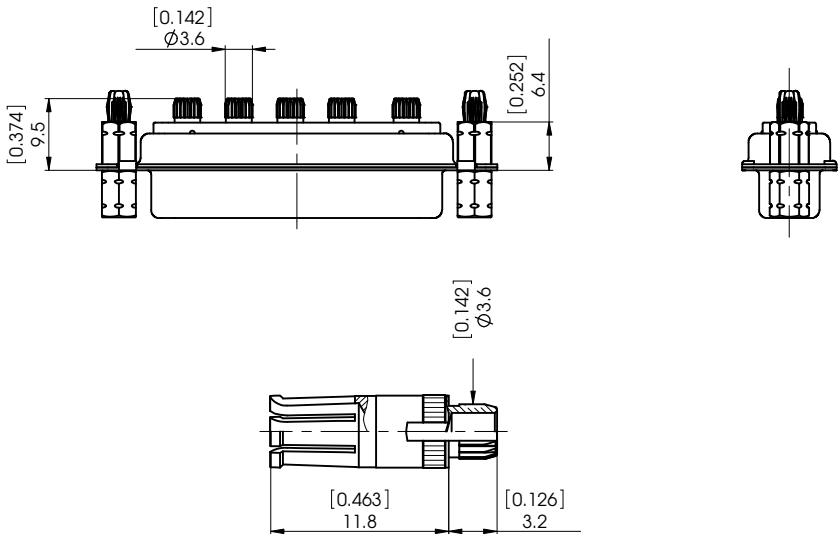
Further hole patterns available

Abmessungen am Beispiel eines Steckverbinders mit Polbild 5W5 und Hochstromkontakten FMP334S1041R.

Weitere Polbilder verfügbar.

Connector FM5W5S-3478

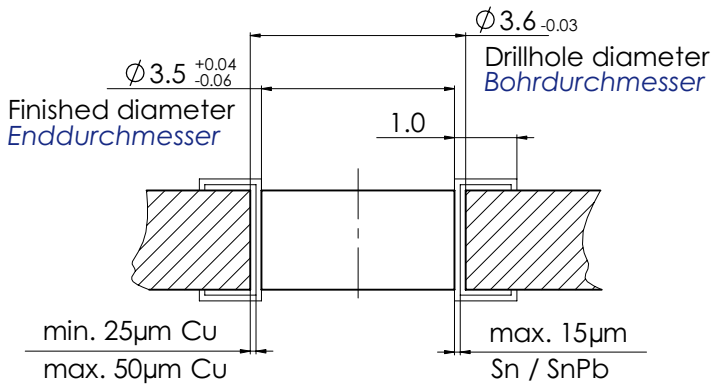
Steckverbinder FM5W5S-3478

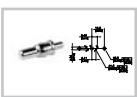


Order Number Plug <i>Bestellnummer Stecker</i>	Type <i>Ausführung</i>	Platings / <i>Oberflächen</i>		Current Rating <i>max. Strom</i>	Order Number Receptacles <i>Bestellnummer Steckdose</i>
		Mating Area <i>Steckbereich</i>	Termination Area <i>Anschlussbereich</i>		
FMP334P1041R	standard	0,8 μm Au	5,0 μm Sn	30 A	FMP334S1041R

Cross-section PCB for Press-fit-contact

Leiterplattenquerschnitt für Einpresskontakt





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.

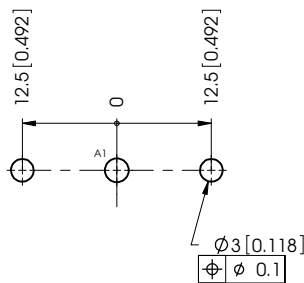
Measurements without tolerances are in accordance with DIN ISO 2768 m. For the required drilling diameters see page 68 and 70.

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

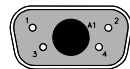
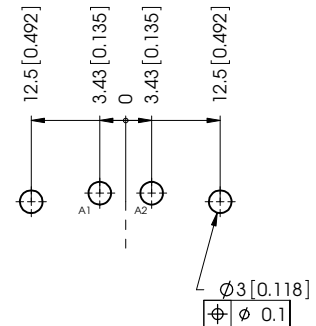
Maße ohne Toleranzangabe nach DIN ISO 2768 m. Erforderlicher Bohrungsdurchmesser siehe Seite 68 und 70.



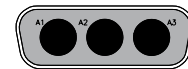
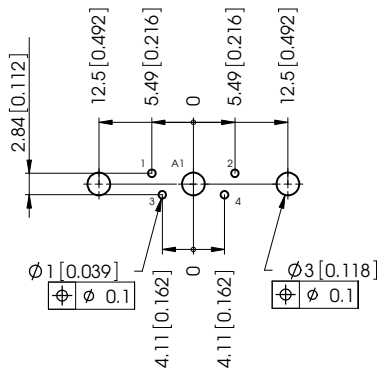
F1W1



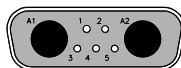
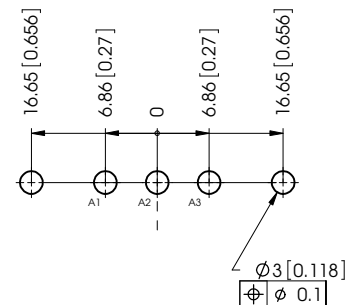
F2W2...C / FM2W2



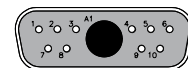
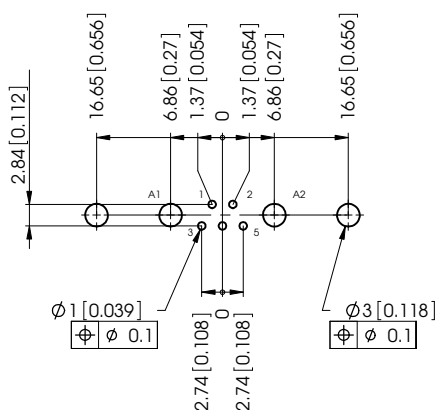
FM5W1



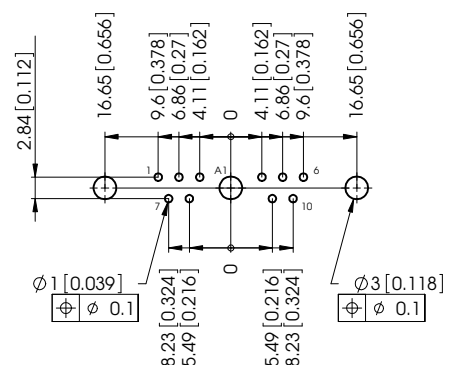
FM3W3 / F3W3...C

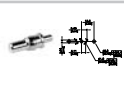


FM7W2



FM11W1





PCB Hole Pattern for Connectors with Straight PCB Terminations

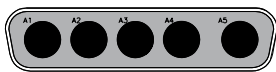
Leiterplattenlochbild für Steckverbinder mit geradem Leiterplattenanschluss

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.

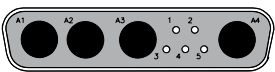
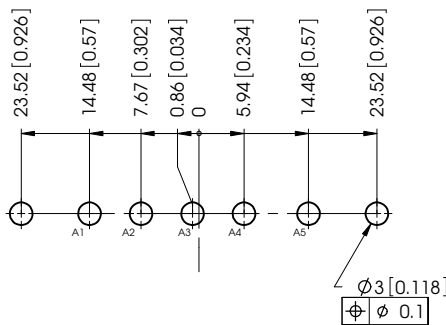
Measurements without tolerances are in accordance with DIN ISO 2768 m. For the required drilling diameters see page 68 and 70.

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

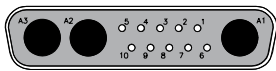
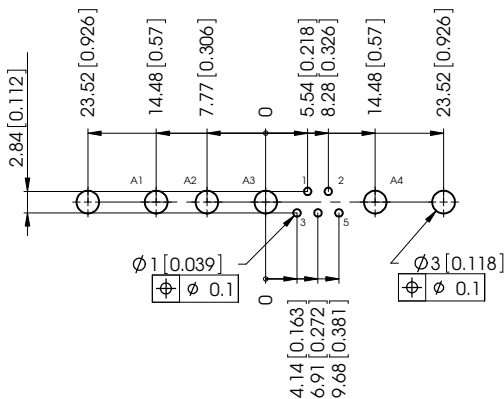
Maße ohne Toleranzangabe nach DIN ISO 2768 m. Erforderlicher Bohrungsdurchmesser siehe Seite 68 und 70.



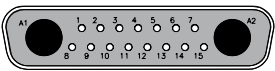
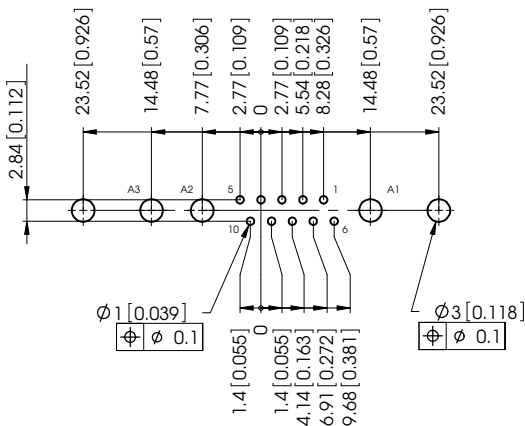
FM5W5



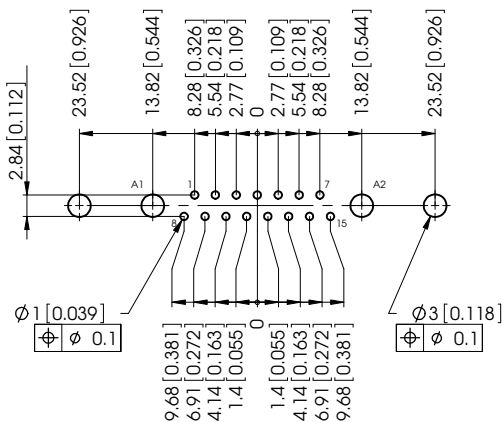
FM9W4

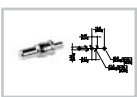


FM13W3



FM17W2





PCB Hole Pattern for Connectors with Straight PCB Terminations

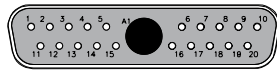
Leiterplattenlochbild für Steckverbinder mit geradem Leiterplattenanschluss

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.

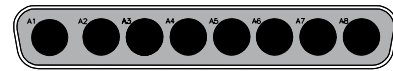
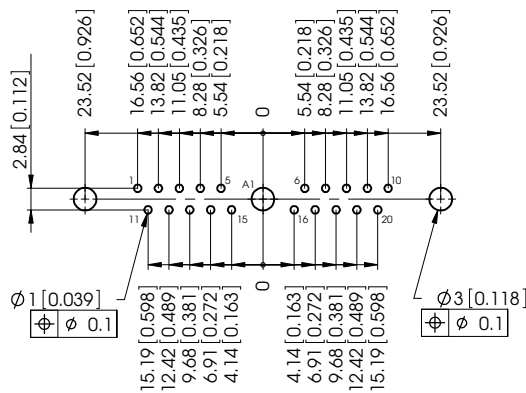
Measurements without tolerances are in accordance with DIN ISO 2768 m. For the required drilling diameters see page 68 and 70.

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

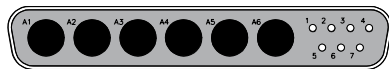
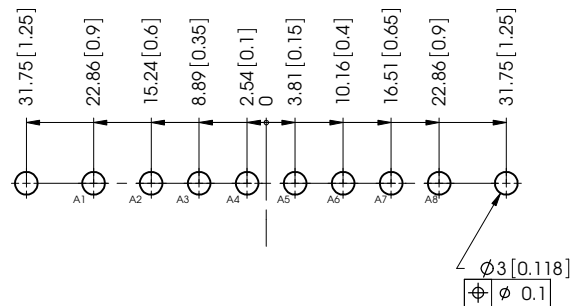
Maße ohne Toleranzangabe nach DIN ISO 2768 m. Erforderlicher Bohrungsdurchmesser siehe Seite 68 und 70.



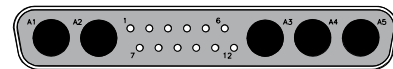
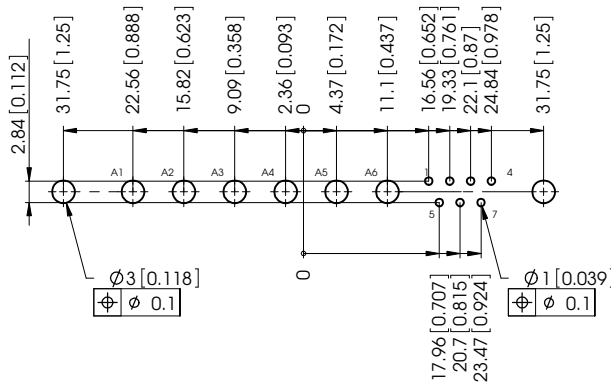
FM21W1



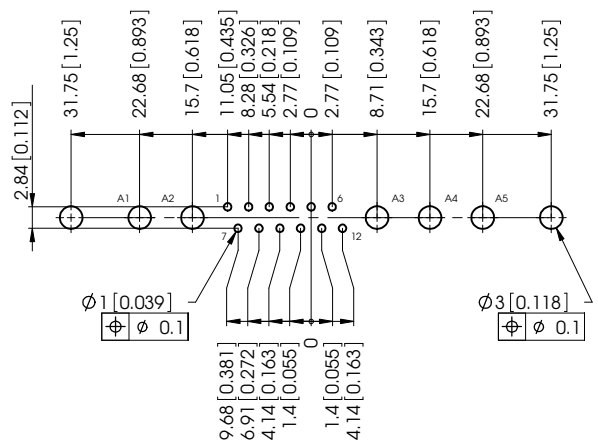
FM8W8

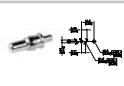


FM13W6



FM17W5





PCB Hole Pattern for Connectors with Straight PCB Terminations

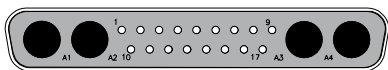
Leiterplattenlochbild für Steckverbinder mit geradem Leiterplattenanschluss

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.

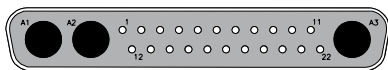
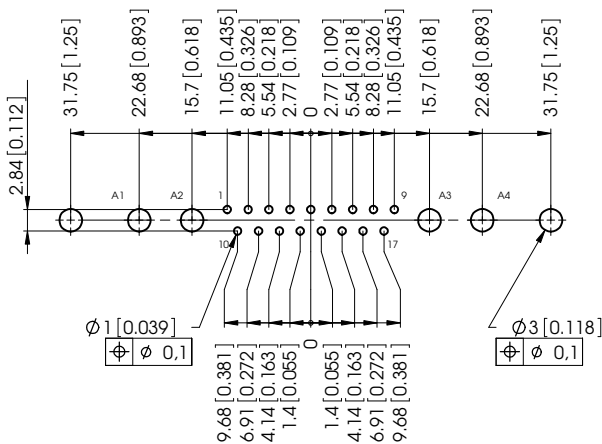
Measurements without tolerances are in accordance with DIN ISO 2768 m. For the required drilling diameters see page 68 and 70.

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

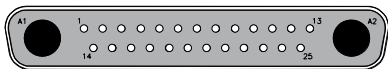
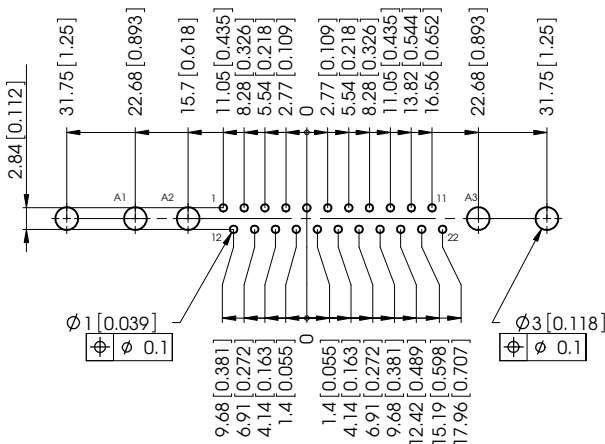
Maße ohne Toleranzangabe nach DIN ISO 2768 m. Erforderlicher Bohrungsdurchmesser siehe Seite 68 und 70.



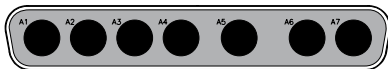
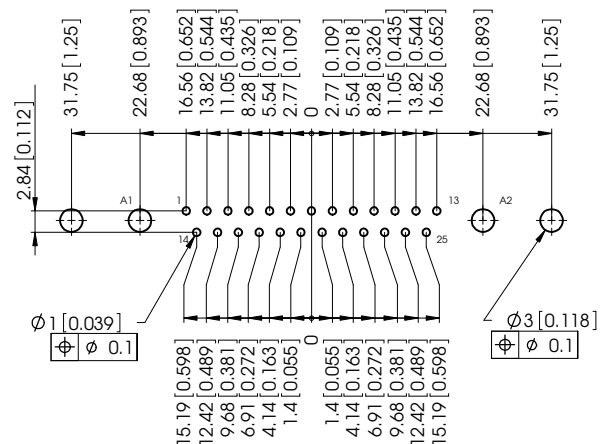
FM21WA4



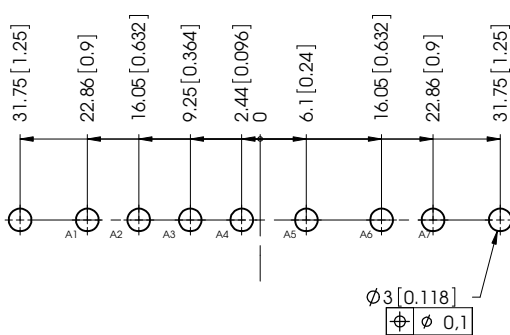
FM25W3

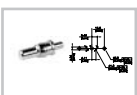


FM27W2



F7W7





PCB Hole Pattern for Connectors with Straight PCB Terminations

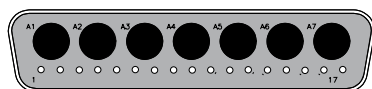
Leiterplattenlochbild für Steckverbinder mit geradem Leiterplattenanschluss

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.

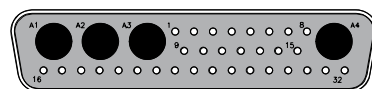
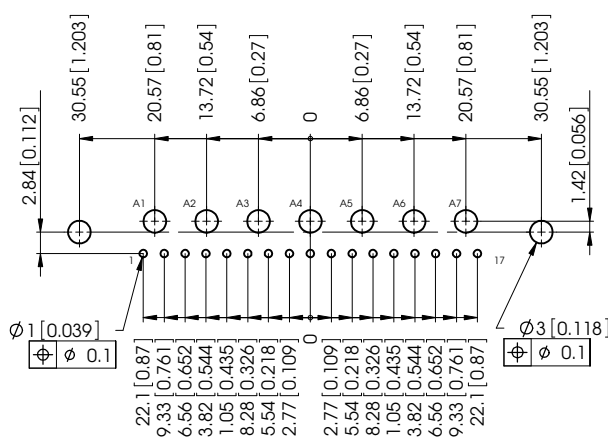
Measurements without tolerances are in accordance with DIN ISO 2768 m. For the required drilling diameters see page 68 and 70.

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

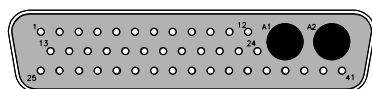
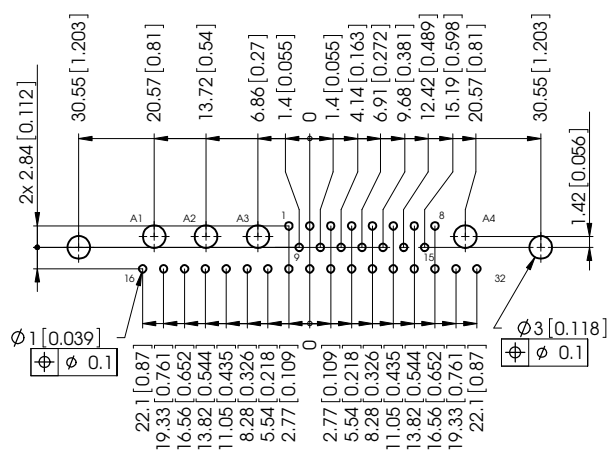
Maße ohne Toleranzangabe nach DIN ISO 2768 m. Erforderlicher Bohrungsdurchmesser siehe Seite 68 und 70.



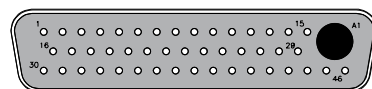
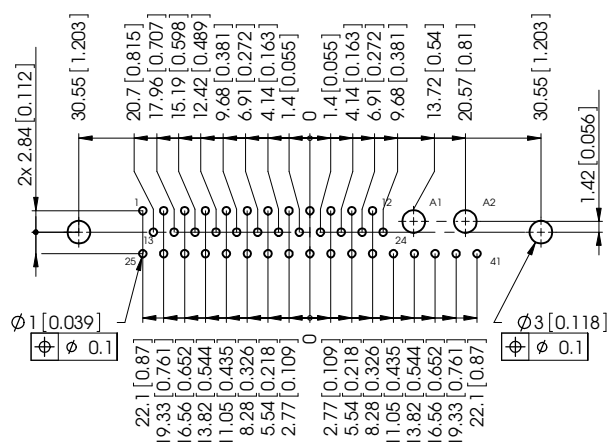
FM24W7



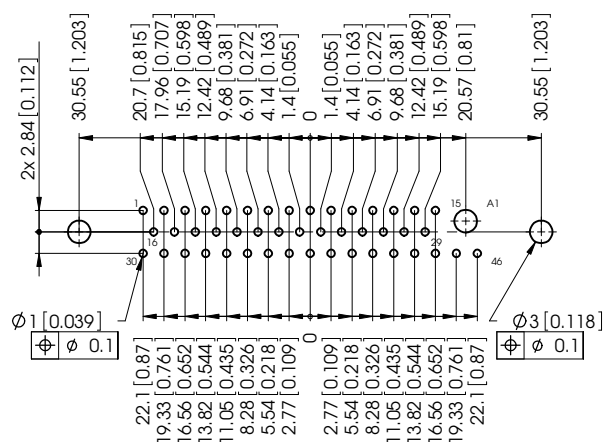
FM36W4

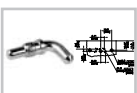


FM43W2



FM47W1





PCB Hole Pattern for Connectors with Right Angled PCB Terminations

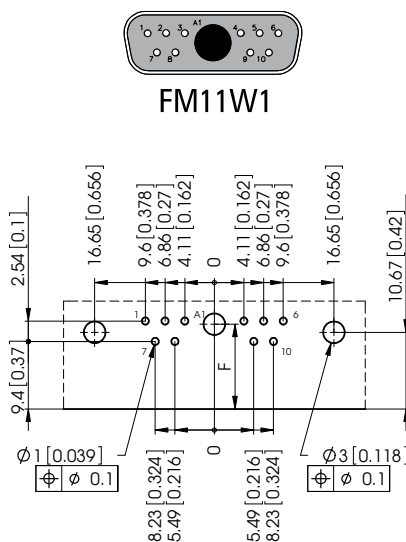
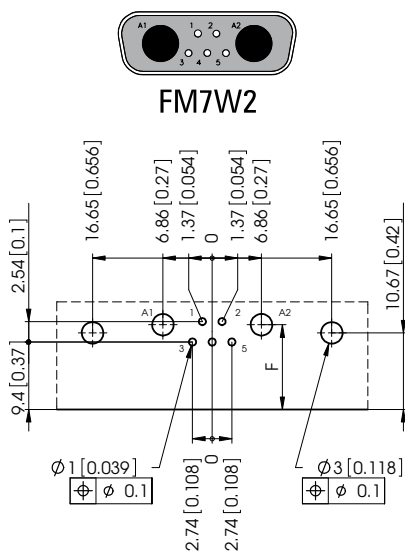
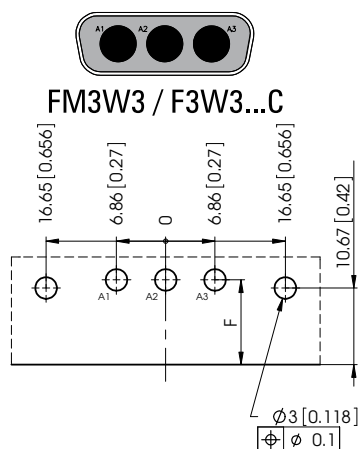
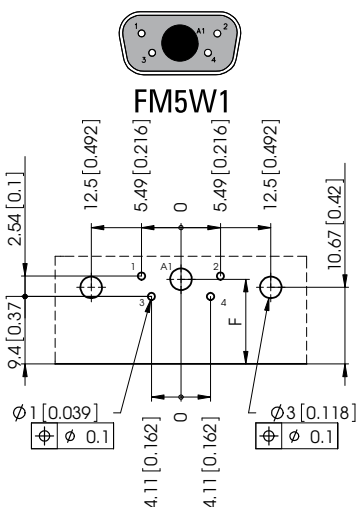
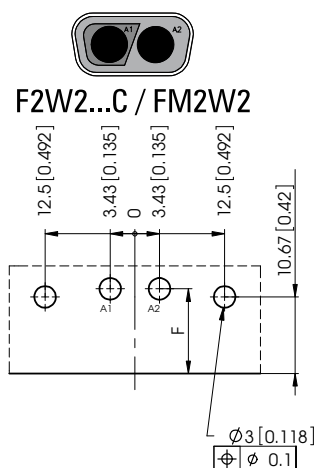
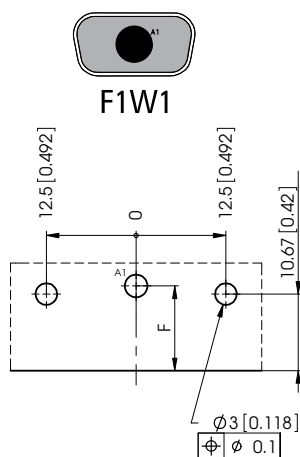
Leiterplattenlochbild für Steckverbinder mit abgewinkeltem Leiterplattenanschluss

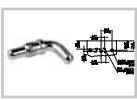
All PCB hole patterns apply to male connectors with right angled PCB terminations (signal contacts P5) with metal brackets F1080-13B. When using female connectors the hole pattern must be mirrored on the Y-axis.

Measurements without tolerances are in accordance with DIN ISO 2768 m. For the required dimension F and drilling diameters see page 69 and 70.

Alle Lochbilder gelten für Stiftsteckverbinder mit abgewinkeltem 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 69 und 70.





PCB Hole Pattern for Connectors with Right Angled PCB Terminations

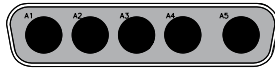
Leiterplattenlochbild für Steckverbinder mit abgewinkelttem Leiterplattenanschluss

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.

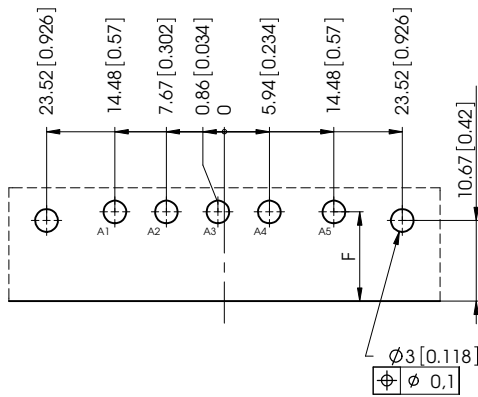
Measurements without tolerances are in accordance with DIN ISO 2768 m. For the required dimension F and drilling diameters see page 69 and 70.

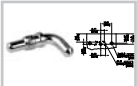
Alle Lochbilder gelten für Stiftsteckverbinder mit abgewinkelttem Leiterplattenanschluss (Signalkontakte P5) und Metallwinkel F1080-13B. Bei Verwendung von Buchsensteckverbindern muss das Lochbild an der Y-Achse gespiegelt werden.

Maße ohne Toleranzangabe nach DIN ISO 2768 m. Erforderliches Maß F und Bohrungsdurchmesser siehe Seite 69 und 70.



FM5W5





PCB Hole Pattern for Connectors with Right Angled PCB Terminations

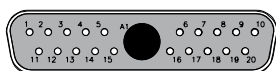
Leiterplattenlochbild für Steckverbinder mit abgewinkelttem Leiterplattenanschluss

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. 

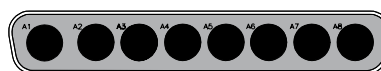
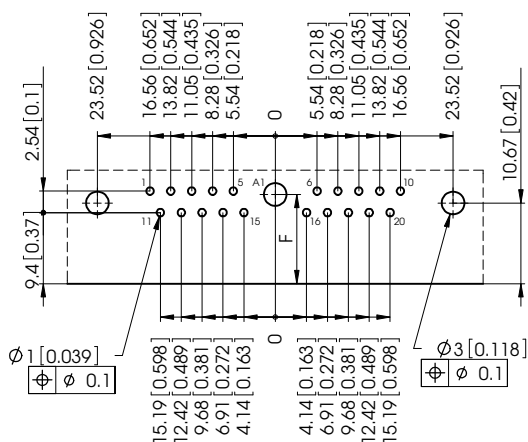
Measurements without tolerances are in accordance with DIN ISO 2768 m. For the required dimension F and drilling diameters see page 69 and 70.

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. 

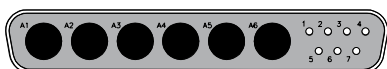
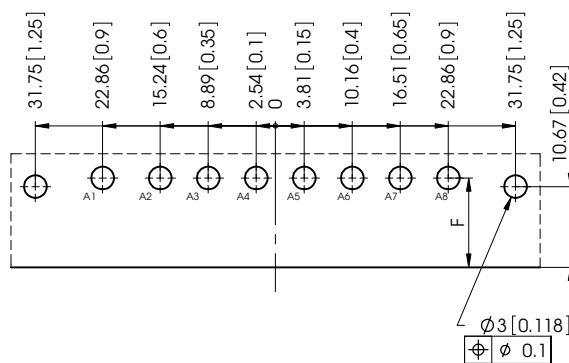
Maße ohne Toleranzangabe nach DIN ISO 2768 m. Erforderliches Maß F und Bohrungsdurchmesser siehe Seite 69 und 70.



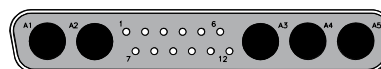
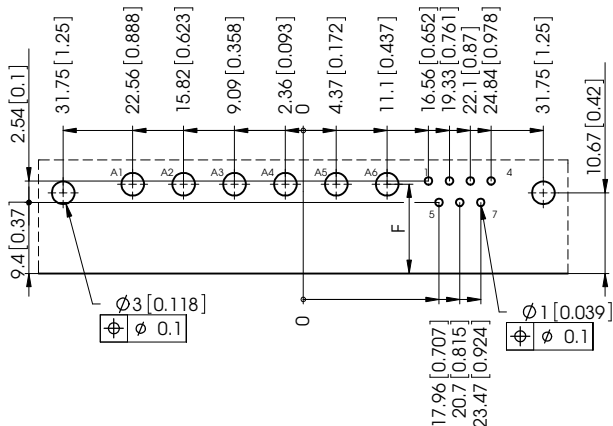
FM21W1



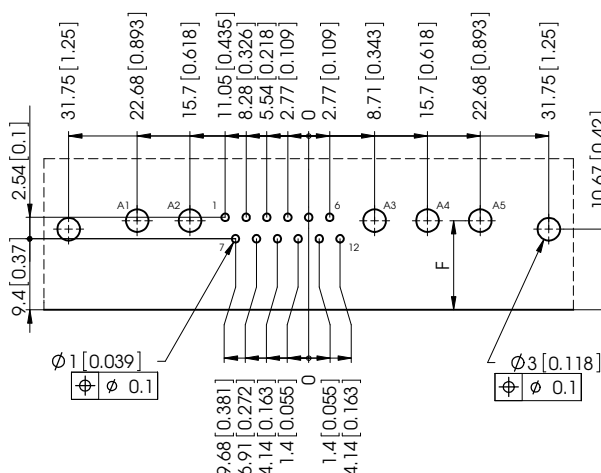
FM8W8

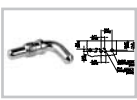


FM13W6



FM17W5





PCB Hole Pattern for Connectors with Right Angled PCB Terminations

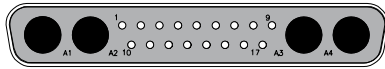
Leiterplattenlochbild für Steckverbinder mit abgewinkelttem Leiterplattenanschluss

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.

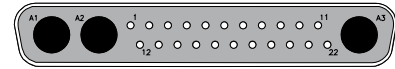
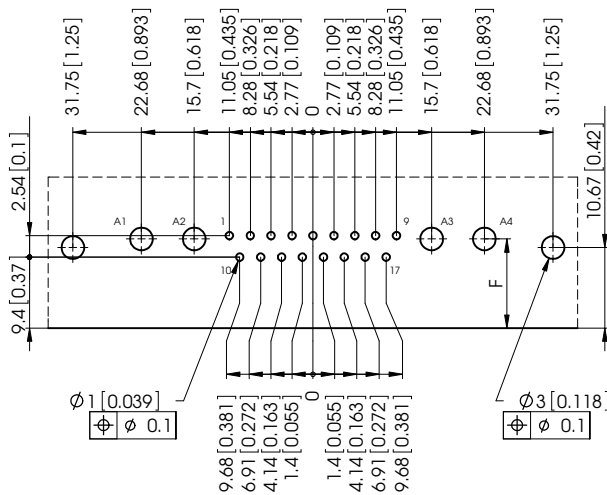
Measurements without tolerances are in accordance with DIN ISO 2768 m. For the required dimension F and drilling diameters see page 69 and 70.

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.

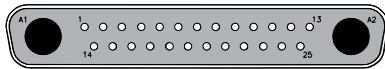
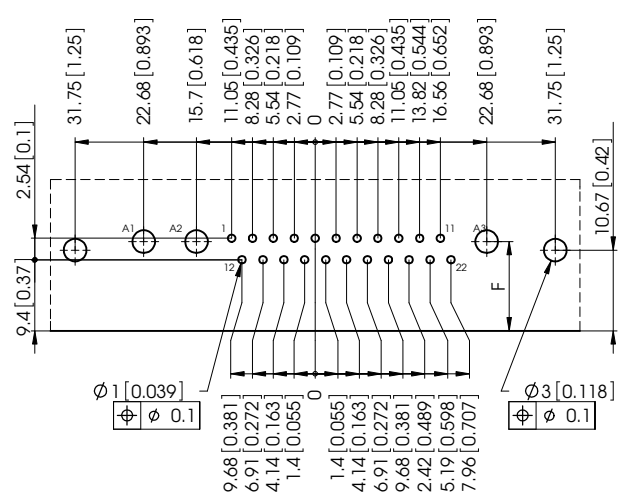
Maße ohne Toleranzangabe nach DIN ISO 2768 m. Erforderliches Maß F und Bohrungsdurchmesser siehe Seite 69 und 70.



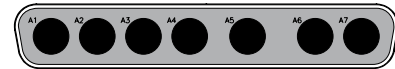
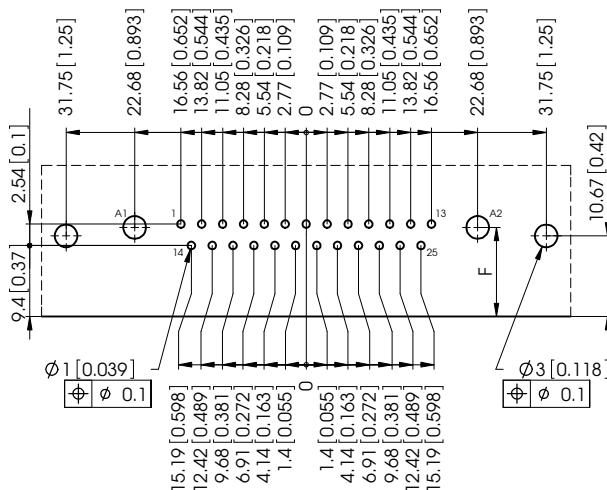
FM21WA4



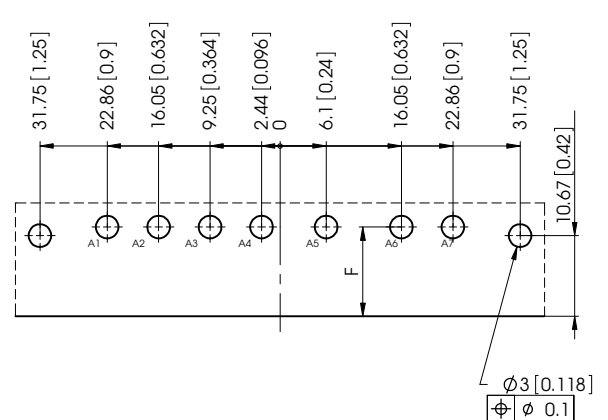
FM25W3



FM27W2



F7W7



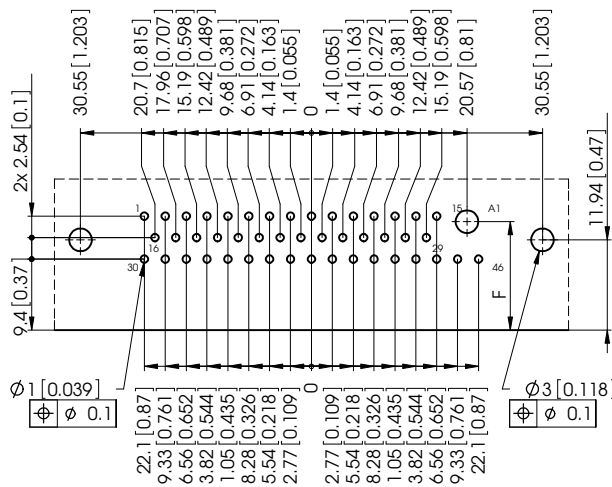
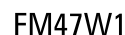
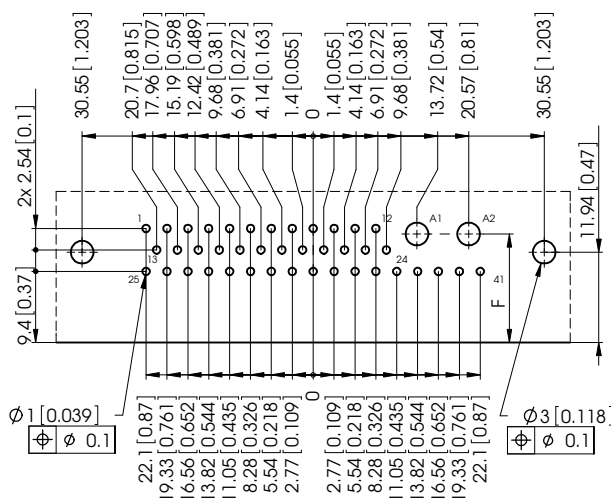
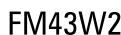
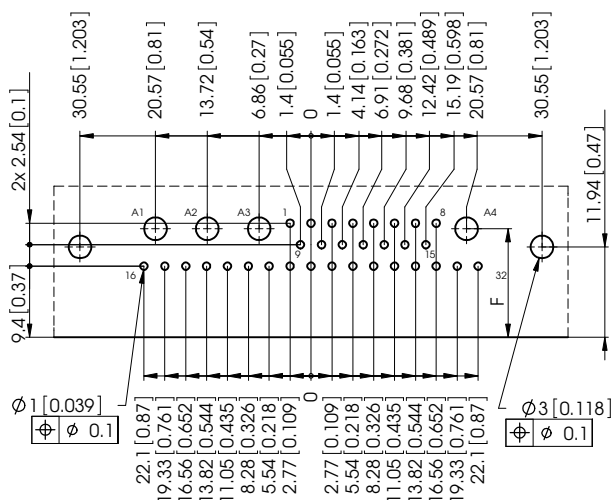
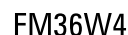
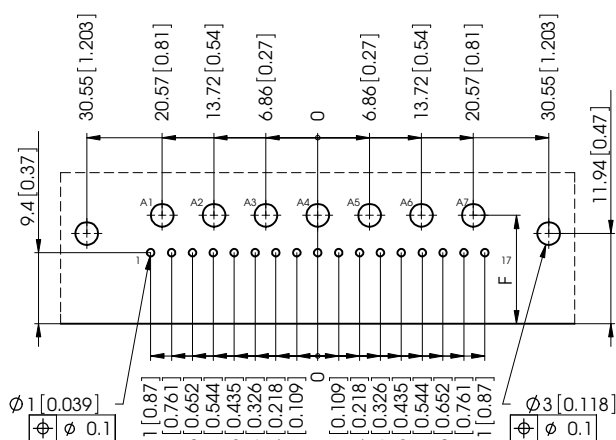
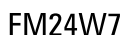


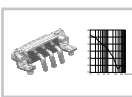
All PCB hole patterns apply to male connectors with right angled PCB terminations (signal contacts P5) with metal brackets F1080-23. When using female connectors the hole pattern must be mirrored on the Y-axis.

Measurements without tolerances are in accordance with DIN ISO 2768 m. For the required dimension F and drilling diameters see page 69 and 70.

Alle Lochbilder gelten für Stiftsteckverbinder mit abgewinkeltem 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 70.





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.

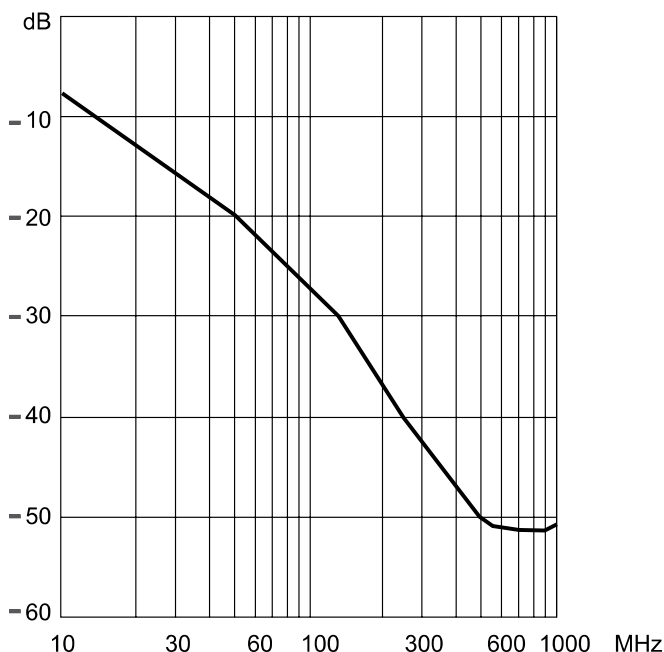
*Neben den gefilterten D-Sub Standardsteckverbindern sind bei FCT auch **Mischpolleisten und Monoblocksteckverbinder in gefilterter Version** erhältlich. Je nach Anforderung können die Hochstromkontakte und - abhängig vom Polbild - auch die Signalkontakte gefiltert werden. Als Filter dienen keramische 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.*



Please see also our catalogue "D-Sub Filter Connectors and EMI/EMV products".
Siehe auch in unserem Katalog "D-Sub Filterstecker und weitere EMV-Produkte".

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*
- *verzinntes 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“*