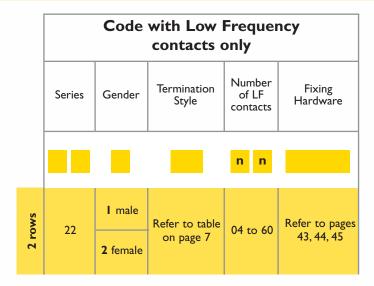
CMM 220 with LF contacts Male connector LF contact Nº1 221R24F26 ala ala ala ala ala ala ala ala a nn = 24 LF contact type "R" (x24) Carp F26 fixing hardware Female connector 222S16M16 LF contact N°1 00000000 C (Θ) LF contact type "S" (x16) nn = 16-M16 fixing hardware

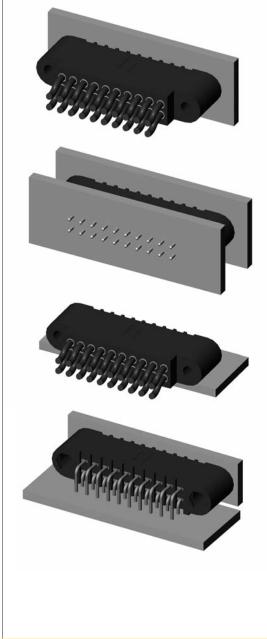
PART NUMBERING REMINDER

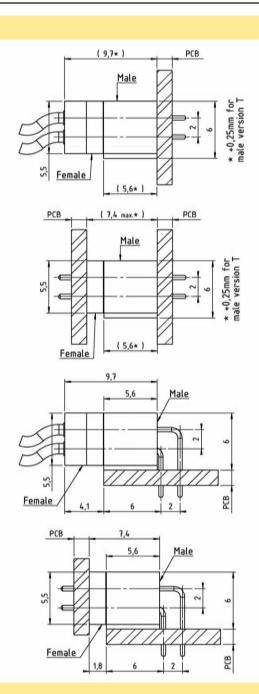


NICOMATIC 27

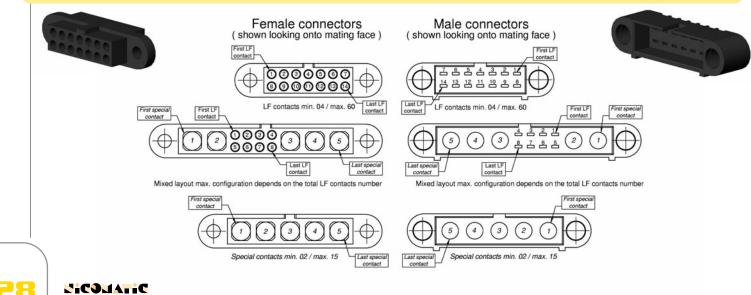
CMM 220 Configuration

CONNECTOR SPACING





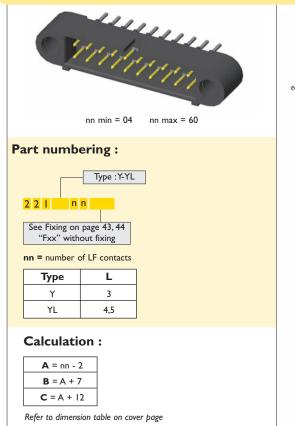
CONTACTS POSITIONS



CMM 220 male

3.4

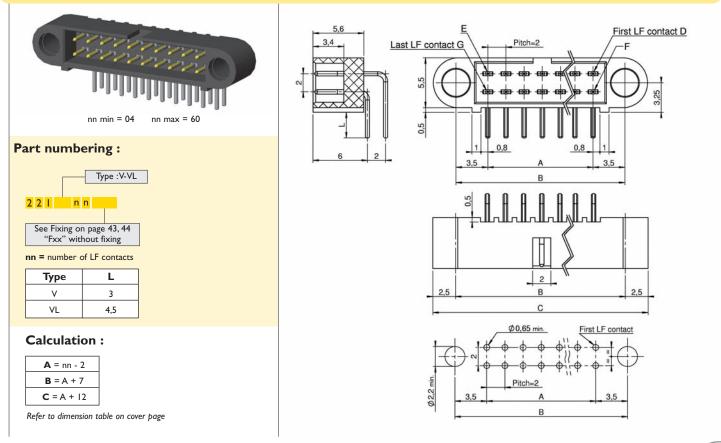
STRAIGHT PCB



First LF contact D Pitch=2 Last LF contact G -F 5,5 1 0,5 0,8 0.8 1 3,5 3,5 A в 0,5 2 2,5 в 2,5 С Ø0,65 min. First LF contact nin Pitch=2 Ø2.2 3.5 3.5

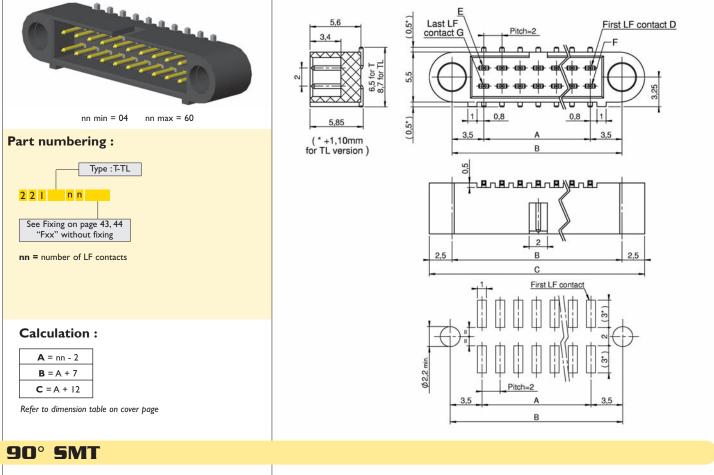
В

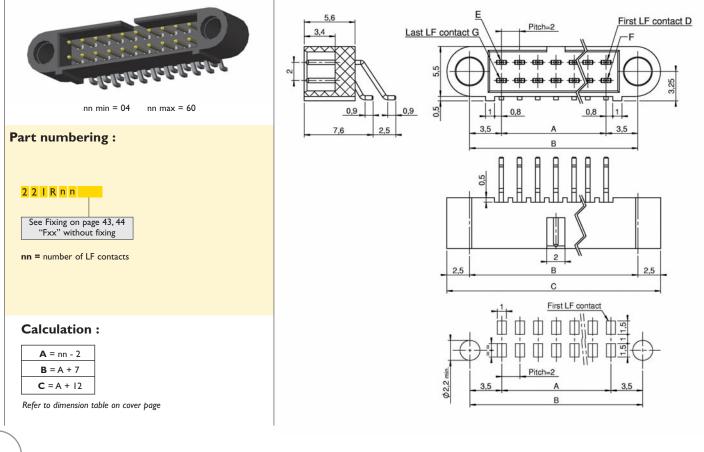
90° PCB



CMM 220 male

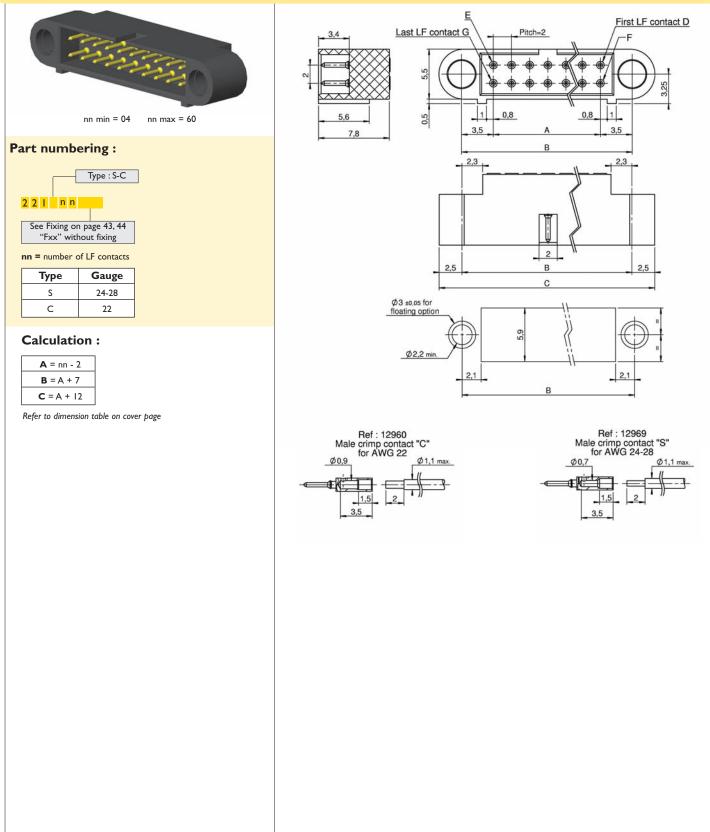
STRAIGHT SMT





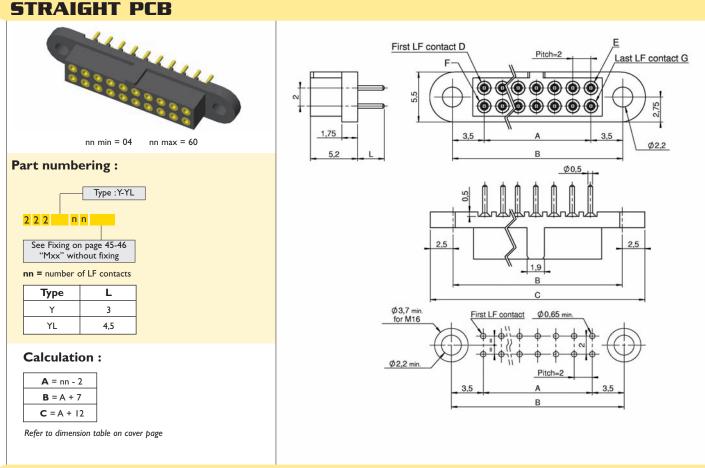
CMM 220 male

CRIMP

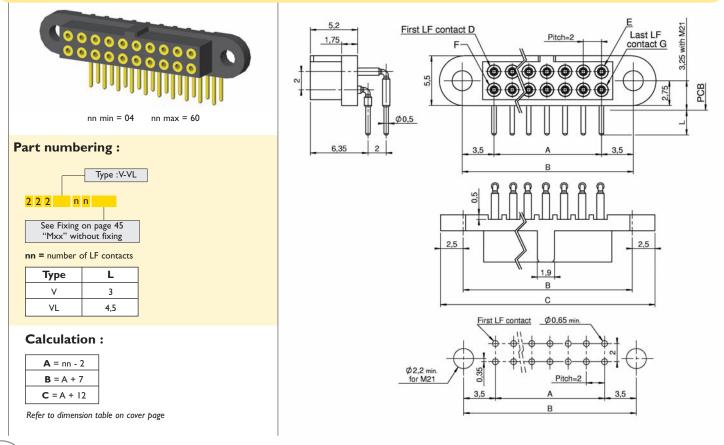


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CMM 220 female

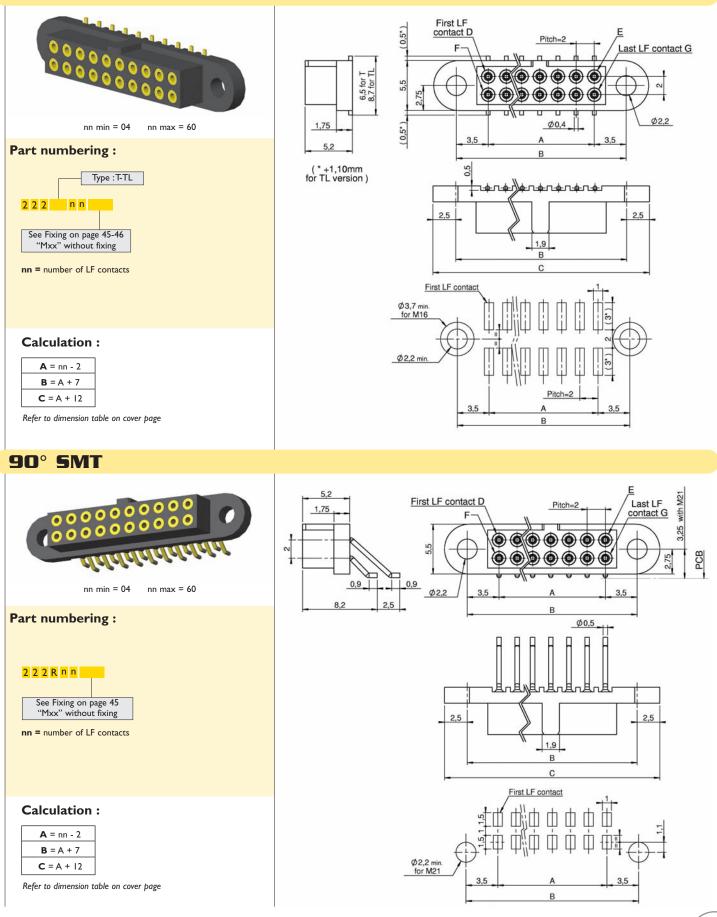


90° PCB



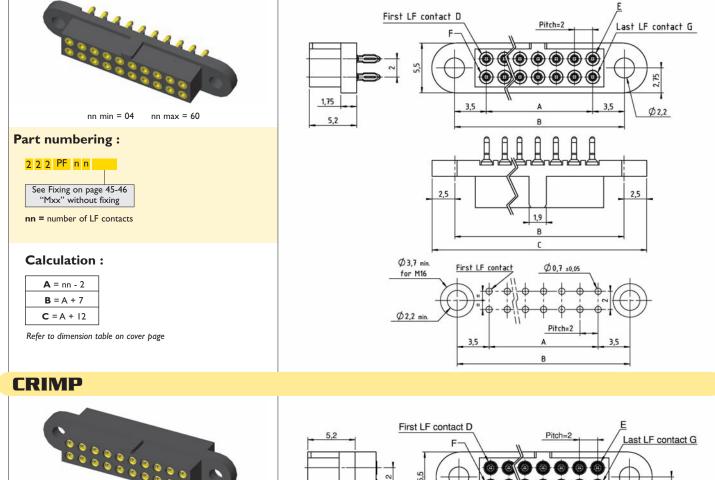
CMM 220 female

STRAIGHT SMT

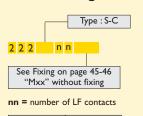


CMM 220 female

STRAIGHT PRESS FIT



Part numbering :



nn min = 04

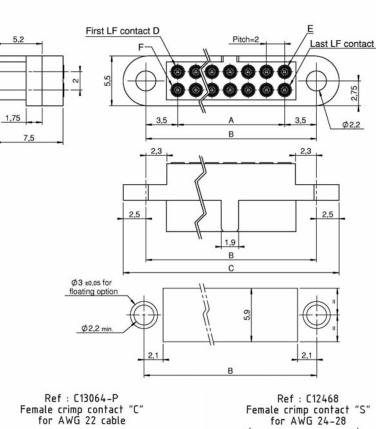
nn max = 60

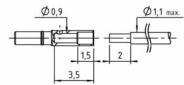
Туре	Gauge
S	24-28
С	22

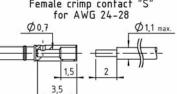
Calculation :

A = nn - 2
B = A + 7
C = A + 12

Refer to dimension table on cover page

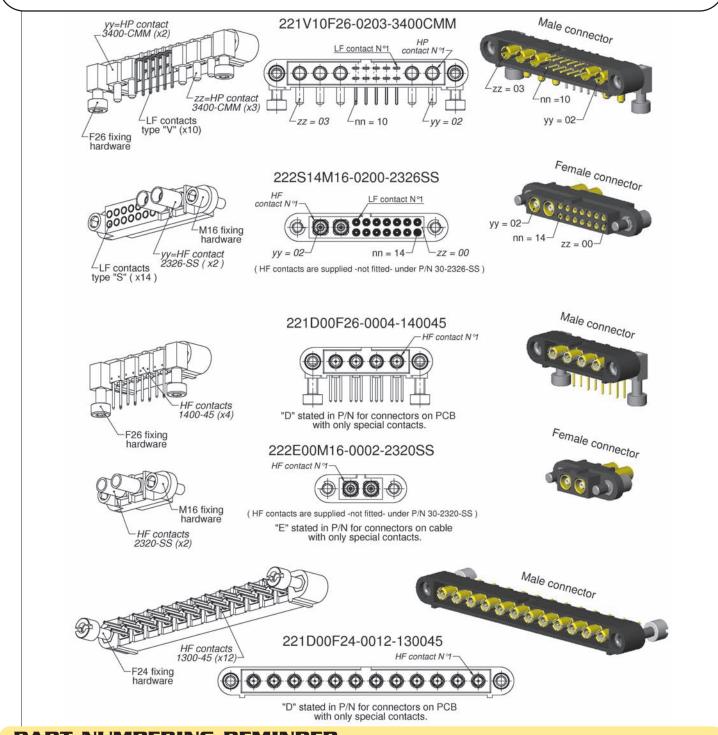






34

CMM 220 mixed-layout



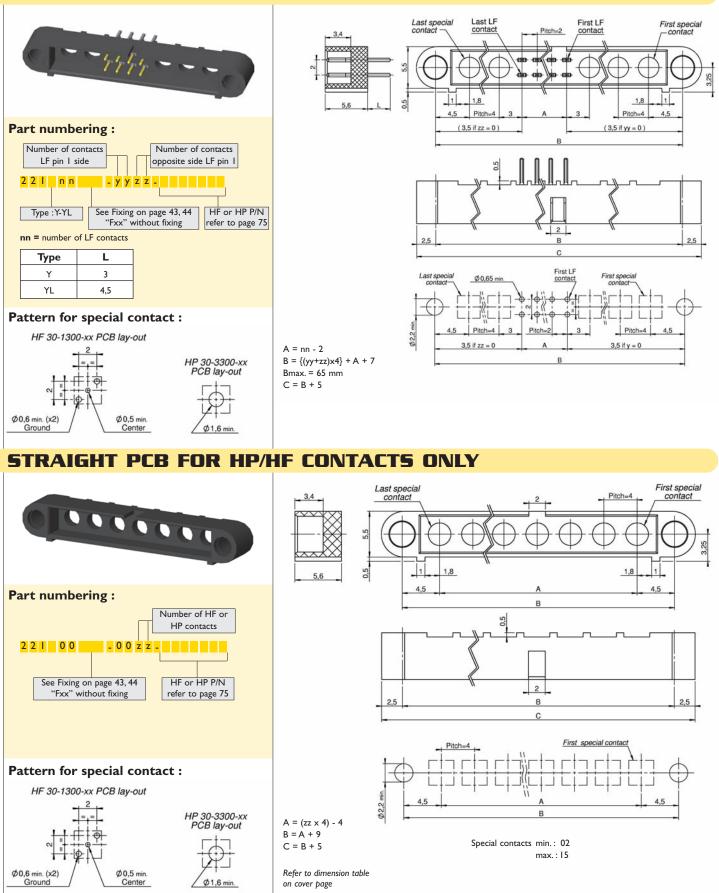
PART NUMBERING REMINDER

		Code	with Low contacts o		псу	Additional code for mixed-layout connector (HF/HP)							
	Series	Gender	Termination Style	Number of LF contacts	Fixing Hardware	Number of HF/HP contacts pin I side (LF contact number I)	Number of HF/HP contacts opposite to LF contact number 1	HF/HP Contact Type					
				n n	-	- y y	z z –						
rows	22	I male	Refer to table	04 to 60	Refer to pages		number of LF contacts key, please refer to page 42	HP/HF 30					
2 rc		2 female	on page 7	04 10 00	43, 44, 45	HF / HP : 15	contacts max. : please refer to pages 8-9	please refer to pages 75 to 92					

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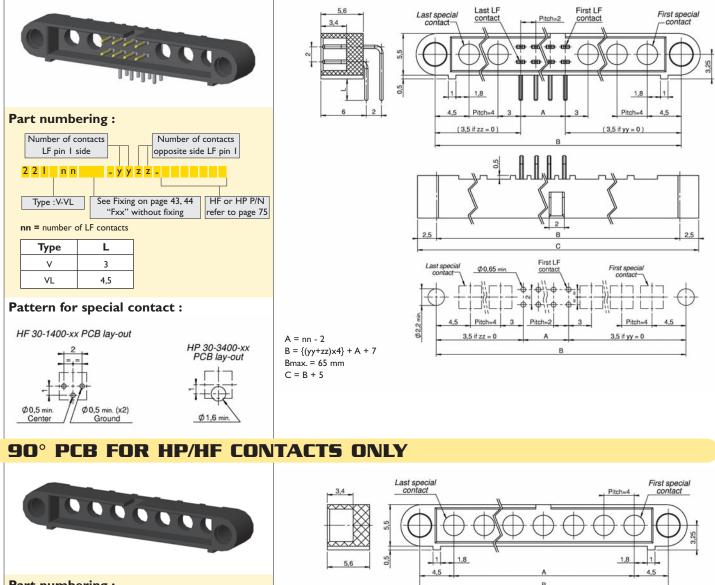
CMM 220 Male mixed-layout

STRAIGHT PCB



CMM 220 Male mixed-layout

90° PCB

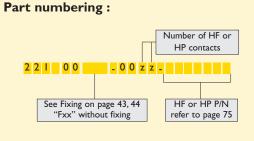


 $A = (zz \times 4) - 4$ B = A + 9

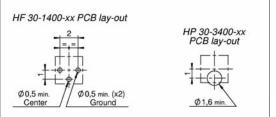
Refer to sizes information

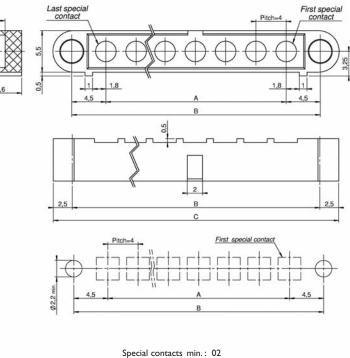
table on cover page

C = B + 5



Pattern for special contact :

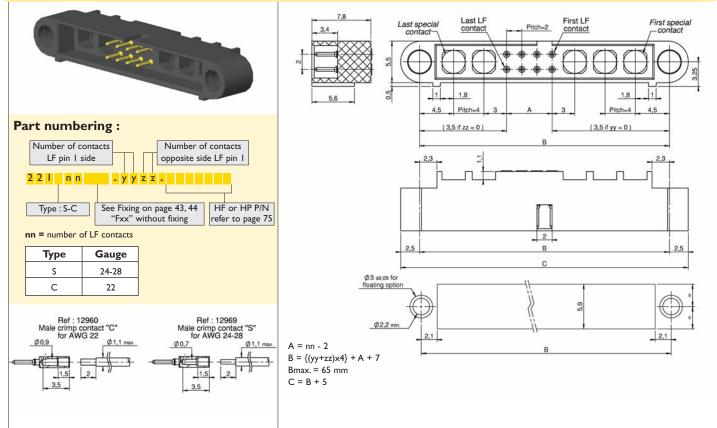




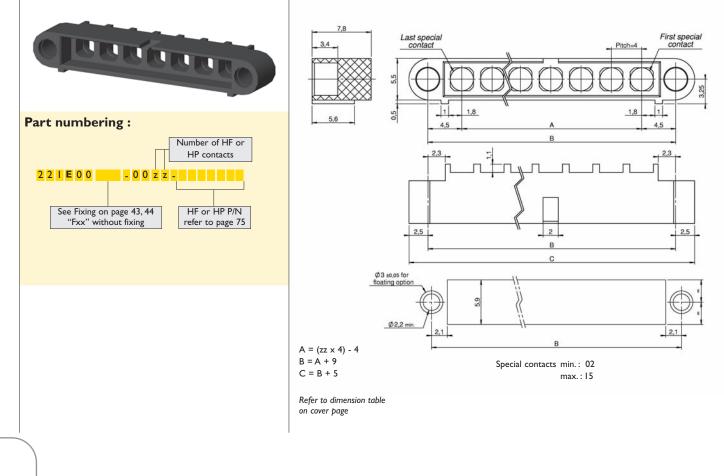
max. : 15

CMM 220 Male mixed-layout

CRIMP



CRIMP FOR HP/HF CONTACTS ONLY

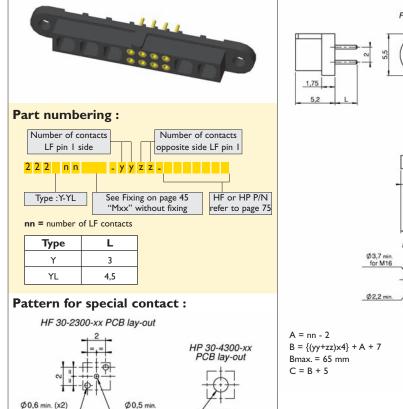


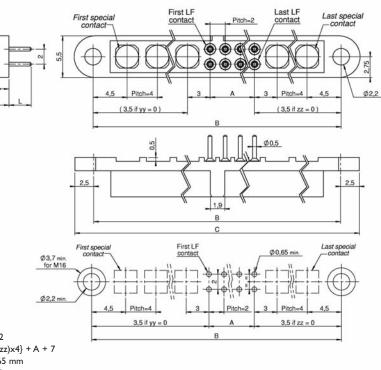
CMM 220 Female mixed-layout

STRAIGHT PCB

Ground

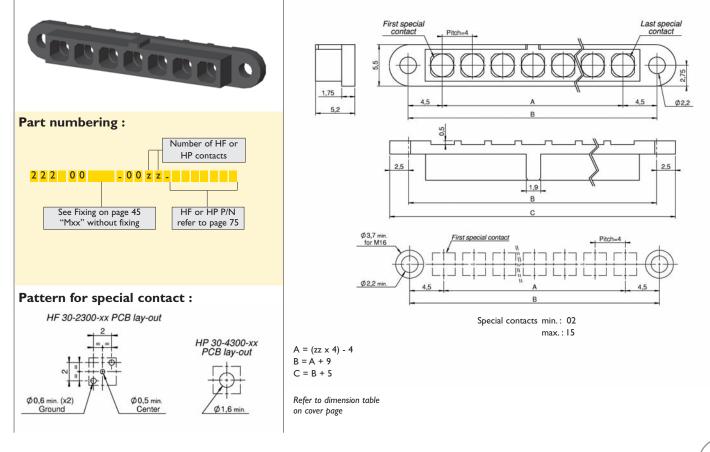
Center





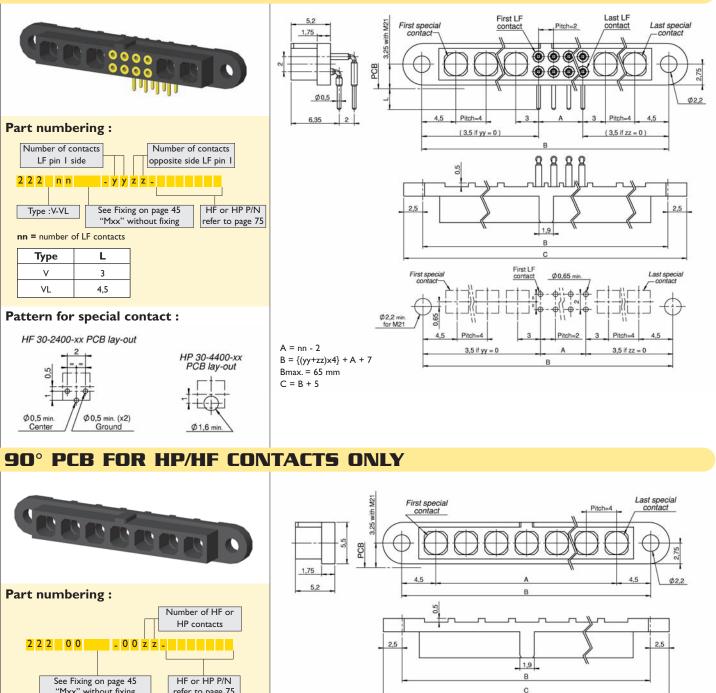
STRAIGHT PCB FOR HP/HF CONTACTS ONLY

Ø1,6 min.



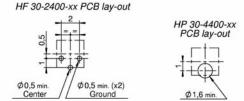
CWW 350 Female mixed-layout

90° PCB



Pattern for special contact :

"Mxx" without fixing



refer to page 75

Refer to dimension table on cover page

 $A = (zz \times 4) - 4$

B = A + 9C = B + 5 First specia contact

Ø2,2 min. for M21

0,65

Pitch=4

Г

1

1

1.1 1

٦Г

tпг

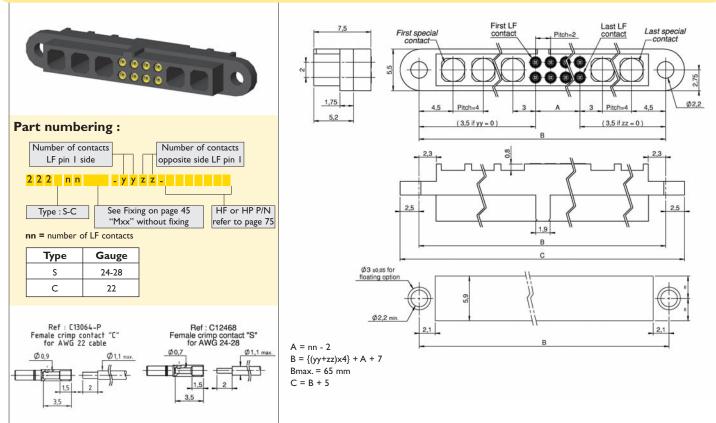
max. : 15

в

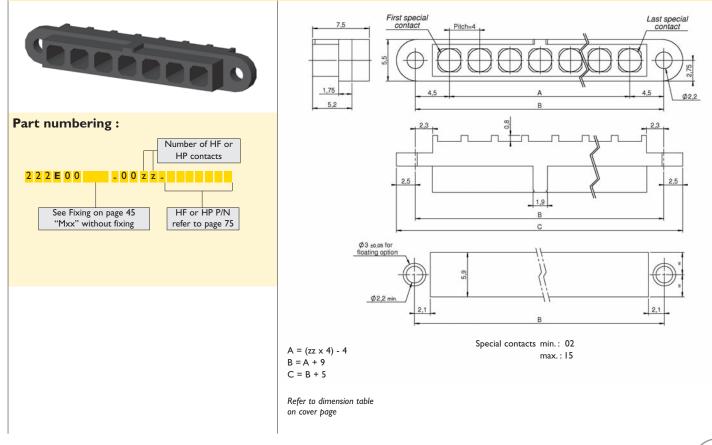
Special contacts min.: 02

CMM 220 Female mixed-layout

CRIMP

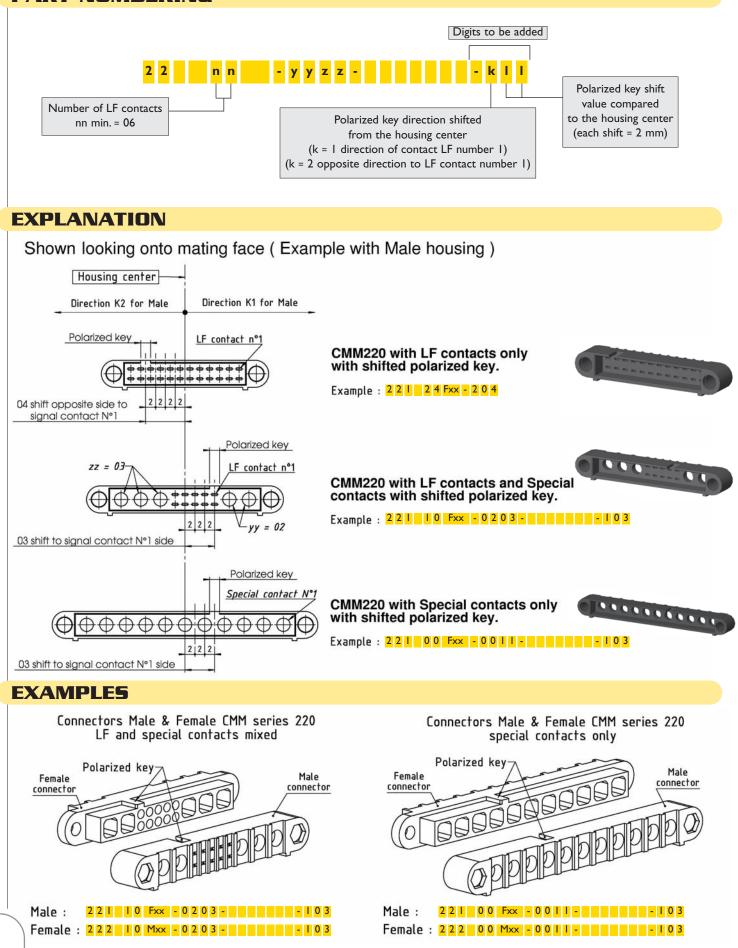


CRIMP FOR HP/HF CONTACTS ONLY



Part numbering with shifted polarization key position

PART NUMBERING



Fixing hardware interconnection table for CMM 220

		6 mount	Źn	min. nax.		min. 1ax.	4 m		РСВ 90 2,5 г)°			l edge ly HF	edge & LF		PCB			aight LE min			9	0°		ı cabl	ting	ivin a	on PCB	
Straight Straight	(mm) 0,8 min. 2 max. 1,5 min.	Fixing	Źn	min. nax.	1,5	min.	4 m	nax.	2,5 r	nax.	4.5	may	y H	& L		P N										ţ		2	
Straight Straight	2 max.	-	F22	F22H								max. र्	onl	Card ed HF & L	No fixing on PCB			2 max.	I,5 min 4 max	4 max.		2,5	2,5 max.		max.	Floa	A C N	5	
Straight	2 max.	M12			F24	F24H									F2 I	F60	F6 I	F22	F24	F25	F26 F23	F30	F30H	F3 I	F31H	F2xx	F2 I	F60 F	51
Straight			OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK			OK	OK	OK	OK	OK	OK	OK	OK	OK	OK		
Straight		MI2H	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK			OK	OK	OK	OK	OK	OK	OK	OK	OK	OK		
ed Straight	4 max.	MI2L MI2LH	OK OK	OK OK	OK OK	OK OK	OK OK	OK OK	OK OK	OK OK	OK OK	OK OK	OK OK	OK OK	OK OK			OK OK	OK OK	OK OK	OK OK	OK OK	OK OK	OK OK	OK OK	OK OK	OK OK		
ed Straight		M46	UN	on	UN	UN	UN	UN	UN	UN	on	UN	UN	UN	UN	OK		UN	UN	on	UK	on	UN	UN	UN	UN		OK	T
	2,5 max.	M46H														OK												ОК	
a õ	1,5 min.	M47														OK												OK	
J Č	4 max.	M47H	01	01	01	01										OK		01	01							01		OK	
- <u>-</u>	3,2	M21 M21L	OK	OK	OK	OK		A	A	A	A	A						OK	OK		A	A	A	A	A	OK	OK		
° 06		M48	OK	OK	OK	OK		A	A	A	A	A					OK	OK	OK		A	A	A	A	A	OK	OK)K
	2	M48M															OK)K
	3,2	M48L															OK)K
Without	,	MI6	OK	OK	OK	ОК		ОК	ОК	OK	ОК	OK	OK	OK	ОК		UN	ОК	OK		ОК	ОК	OK	ОК	OK	OK	ОК		ĸ
Wit	0,8 min.	MII	UK	UN	UK	UK		UK	UK	UK	UK	UK	UN	UK	UK			UN	UK		UK	UK	UK	UK	UK	UN	UK		
o cth Straight	2 max.	M12	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK			OK	OK	OK	OK	OK	OK	OK	OK	OK	OK		
Ĕ	4 max.	MI2L	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK			ОК	OK	OK	OK	OK	OK	OK	OK	OK	OK		
oatin		MIxx	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK			ОК	OK	OK	OK	OK	OK	OK	OK	OK	OK		
T T	1.5 min.	M46														OK												ОК	T
Straight Fl	1,5 min. 4 max.	M47														OK												ОК	
2	١,6	M21	OK	OK	OK	OK		Α	A	A	Α	A						OK	OK		Α	Α	A	Α	Α	OK	OK		
0	3,2	M21L	OK	OK	OK	OK		Α	A	A	A	A						OK	OK		A	A	A	Α	Α	OK	OK		
Locked	١,6	M48															OK											C	K
Loc	2	M48M															OK)K
	3,2	M48L															OK											C)K
Without		M16	OK	OK	OK	OK		OK	OK	OK	OK	OK	OK	OK	OK			ОК	OK		OK	OK	OK	OK	OK	OK	OK		
With cover		M18	OK	ОК	OK	OK		в	В	В	в	В	OK	OK	OK			OK	OK		В	в	В	в	В	OK	OK		

FIXING HARDWARE FOR CMM 220 MALE

REFERENCE	ASSEMBLY ON PCB		RECOMMENDATION
F27	नित्तन् .	M2 x 5	F27 : CMM male : Card edge for HF contact 30-1500-CMM
F34		₩2×5 - 2 5.6 W2×5 - 2 5.6 W	F34 : CMM male : Card edge LF contact or mixed
F28			F28 : CMM male : S-C (E : straight)

Please refer to the CMM Catalogue Guidelines for any other fixing not listed here.

Fixing for CMM 220 male

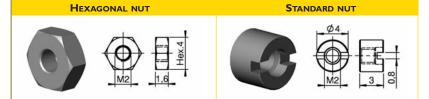
FIXING HARDWARE FOR CMM 220 MALE

REFERENCE	Assembly on PCB	Overall dimensions	RECOMMENDATION
F21	Straight on PCB	4.6 ∞∞∞∞ 5.6	F21 : CMM male : Y-YL-T-S-C (D-E : straight)
F22	Straight on PCB 0,8 min / 2 max		F22 : CMM male : Y-T-S-C (D-E : straight) F22H : CMM male : Y-T (D : straight)
F24	Straight on PCB 1,5 min / 4 max		F24 : CMM male : YL-T-S-C (D-E : straight) F24H : CMM male : YL-T (D : straight)
F2xx xx = (PCB thickness + 0,2 mm) x 10 Example : for 3 mm PCB, the reference is F232 (3 + 0,2) x 10 = 32 xx = 32	Straight on PCB with floating option	1.2 0,2 clearance Panel	F2xx : CMM male : S-C (E : straight)
F25	90° on PCB	1.5 0 0 0 0 0 0 0 0 0 0 0 0 0	F25 : CMM male : V-VL-R-S-C-E (D : 90°)
F26 F23	90° on PCB	M2 N2 N2 N2 N2 N2 N2 N2 N2 N2 N	F26/F23 : CMM male : V-VL-R-S-C-E (D : 90°)
F30	90° on PCB 2,5 max.	Panel 5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.	F30 & F30H: CMM male : V-R-C-S-E (D : 90°)
F31	90° on PCB 4,5 max.	Panel 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	F3I & F3IH: CMM male : VL-R-C-S-E (D : 90°)

Please refer to the CMM Catalogue Guidelines for any other fixing not listed here.

Fixing for CMM 220 female

FIXING HARDWARE FOR CMM 220 FEMALE





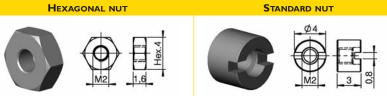
Please refer to the CMM Catalogue Guidelines for any other fixing not listed here.

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Other fixing hardware for CMM 220

FIXING HARDWARE FOR CMM 220 FEMALE/MALE

HEXAGONAL NUT



REFERENCE	ASSEMBLY ON PCB	OVERALL DIMENSIONS	RECOMMENDATION
M46	Straight on PCB 1,5 min. / 2,5 max.	E 2,9 4,5 E	M46 : CMM female : Y-T-S-C (D-E : straight) M46H : CMM female : Y-T
M47 🐼	Straight on PCB 1,5 min. / 4 max.	0,9	(D : straight) M47 : CMM female : YL-T-S-C (D-E : straight)
M47H	C.	5,2 Panel	(D-L : Straight) M47H : CMM female : YL-T (D : straight)
M48 for PCB I,6 mm (L = 3 mm) M48M for PCB 2 mm (L = 4 mm) M48L for PCB 3,2 mm (L = 5 mm)	90° on PCB	5.2 15 H2 x L 4 4 4 4 4 4 4 4 4 4 4 5 4 4 4 5 4 4 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5	M48 / M48M / M48L : CMM female : V-VL-R-S-C-E (D : 90°)
F60	Straight on PCB	Panel 5,6 E	F60 : CMM male : Y-YL-T-S-C-E (D : straight)
F61	Straight on PCB	STORE SECTION	F61 : CMM male : Y-YL-T-S-C-E (D : straight)
	M46 M46H M47 M47H ing hardware PCB layout 2 holes Ø2,8 ±0,05 Distance between axis "B"	Fixing nut While screwing the fixing n maintain the insert with screw	

DitALO31 46