



HIGH PERFORMANCE
MICRO-CONNECTORS

DMM SERIES **Micro D-Nix™**
METAL RECTANGULAR CONNECTORS

ICONATIC

MANUFACTURER & DESIGNER OF INTERCONNECT SOLUTIONS



CONTENT



CLASSIC DMM

For wire/wire, wire/PCB, PCB/PCB
with low frequency contacts only

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MY DMM

For wire/wire, wire/PCB, PCB/PCB, front and rear panel
mixed-layout

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EXCLUSIVE DMM

Get the maximum technical possibilities

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INTRODUCTION



DMM Series ™

Defence and aerospace systems require high levels of performance in harsh environments, space saving and flexibility for the design.

The DMM series was developed to meet these needs.

All spaces are compliant or exceed MIL-DTL-83513G

All series are dedicated to cable and Printed Circuit Board applications.

NICOMATIC reinvents the Micro-D concept with a full modular and hybrid range

- 2mm pitch, from 1 to 4 rows, from 2 to 120 contacts shell size
- I/O connector, board to board, board to cable & cable to cable versions
 - Low frequency (LF): 3A
 - High frequency (HF): 6GHz
 - High power (HP): 5/8/10/15/20A

Application examples

FRONT PANEL

Cable / Cable

REAR PANEL

Cable rear mounting

Right angle rear mounting

Straight rear mounting

WIRE / WIRE

PCB / PCB

Straight / Right angle

Right angle/ Right angle PCB extension

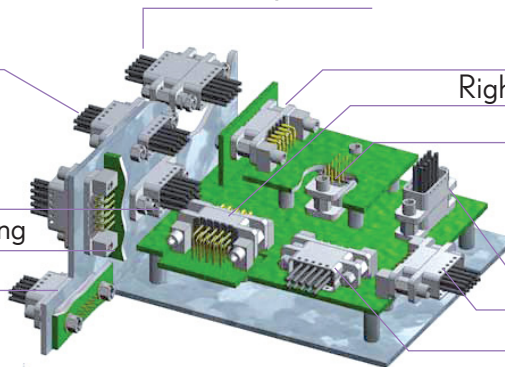
Straight / Straight

PCB / WIRE

Straight SMT/cable

Right angle / cable card edge

Right angle / cable



MAIN BENEFITS

- **Saves space** = Low profile, high density package & small footprint
- **Full modularity** = Signal, power & coax contacts
- **Easy maintenance** = Removable crimp contact
- **High flexibility** = Front / Rear panel mount, Straight / 90°, Cable / PCB
- **Short lead-time** = Fast availability vs. Micro-D, low MOD
- **Affordability** = Cost effective solution
- **Reliability** = According to MIL-DTL-83513G



Classic DMM

Classic DMM series: LF contacts, for harness applications or Printed Circuit Board. Available in most popular shell sizes from the market, these standard connectors are easy to choose and fast to deliver with affordable price

- LF contacts
- From 2 to 3 rows, 10 to 90 LF contacts
- Easy to choose, Fast to deliver
- Most popular Micro-D shell sizes

More than **200**
configuration possibilities

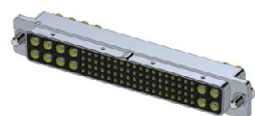


My DMM

My DMM series: LF, HF, HP or hybrid connectors, a range based on multi-contact arrangements, offering free positioning with pre-defined shell sizes. More than 60 fixing hardware options are available for easy integration. This series offers custom design possibilities with the advantage of an off-the-shelf product.

- Mixed layout
- From 1 to 4 rows, 4 to 120 LF contacts, 1 to 30 HP/HF contacts
- Easy to customize, easy to get
- Wider range to fit your design
- Panel mounting, racking and locking

More than **20 000**
configuration possibilities



Exclusive DMM

Exclusive DMM series: LF, HF, HP or mixed contacts of any size, any length. A much higher number of arrangements is possible. The number of rows can be changed according to application constraints. These bespoke connectors optimize space and weight savings.

- Shell size selection
- Millions of possible designs
- Bespoke DMM for unique space constraints

More than
2 million
configuration possibilities

TECHNICAL DATA

CONTEXT

THIS SPECIFICATION COVERS PERFORMANCE REQUIREMENTS FOR NICOMATIC DMM CONNECTORS IN COMPLIANCE WITH MIL-DTL-83513G

REQUIREMENTS

ELECTRICAL PERFORMANCE REQUIREMENTS

■ Signal Low Frequency contacts (LF)

Rated current	3A max@25°C / 2.2A max@85°C
Rated voltage (sea level)	200VRMS
Withstanding voltage (sea level)	600VRMS
Breakdown voltage (sea level)	800VRMS
Contact resistance (initial)	8.7mΩ max
Insulation resistance	5GΩ min

■ High Power contacts (HP)

Rated voltage	500 VRMS
Withstanding voltage	1500 VRMS
Rated Current	30A max@25°C / 20A max@85°C
Contact resistance (initial)	3mΩ max

■ High Frequency contacts (HF)

Impedance	50Ω – 75Ω
Insulation resistance	10 ⁶ MΩ@250VRMS
SWR (stationary wave ratio)	< 1.05 + 0.04 *f GHz
Frequency range	6GHz (depending on cable)
Insulation between 2 contacts	-100dB (depending on cable)

MECHANICAL REQUIREMENTS

■ Low Frequency contacts (LF)

Durability	500 cycles min
Contact engagement/separation force	2N max. / 0.2N min
Contact retention in insulator (initial)	10N min
Contact replacement in insulator	3 cycles (contact on cable without backpotting)

■ High Power / High Frequency contacts

Durability	500 cycles min
Contact engagement/separation force	2N max / 0.5N min
Secure overlapping	1.30mm
Contact replacement in insulator	5 cycles (contact on cable without backpotting)

ENVIRONMENTAL REQUIREMENTS

Temperature range	From -55°C to +125°C.
Vibration severity	Complies with PbFree reflow T° profile 10 to 2000Hz / 15g / 3 axis / 12 cycles per axis. (no signal interruption > than 1 µs)
Shock severity	100g for 6 ms sawtooth. (no signal interruption > than 1 µs)
Salt spray	48h, 5% NaCl

MATERIAL

■ Shell

Aluminum 6061 type alloy - Chemical Nickel plating 10µm

■ Insert

Special PPS (Polyphenylene Sulfide Fibreglass filled thermoplastic) UL 94-V0

Radiation resistance / No humidity absorption / Oxygen free

Note: PPS characteristics are recognized for space applications

Insert retention: 50 pounds per sq. inch

■ Fixing Hardware

Jackscrew: Passivated Stainless steel 300 series

M2.5 Max. torque 0.30N.m (circlip version: D53) / 0.40 N.m (others)

■ Contacts

Low Frequency contacts: Ni + Au > 1.27µm (depending on contact)

Insulator: PTFE (HF contacts only)

Retaining clip: Be/Cu Ni plated 3µm (contacts on cable only)

IMPORTANT NOTICE

According to the routines test other than MIL our technical features for DMM Micro-connectors reach a higher result.

Please contact technic@nicomatic.fr for more information.

For example:

- LF: up to 5A max.@ 25°C

- HF: up to 11GHz

- HP: up to 30A

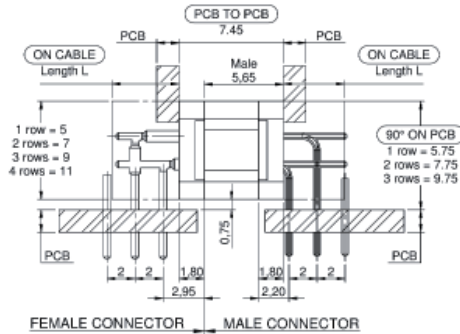
- Mechanical operations: up to 5 000 cycles

- Application with LVDS signal @ 400MHz, impedance 100 Ohm

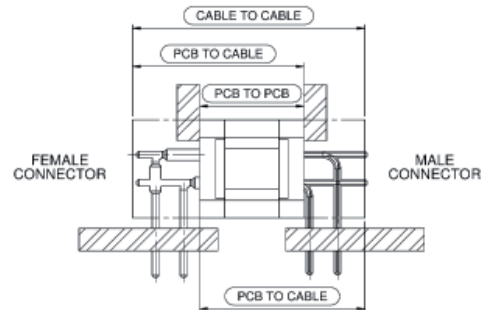
- High speed: USB, 1Gb/s Ethernet...



CONNECTOR SPACING



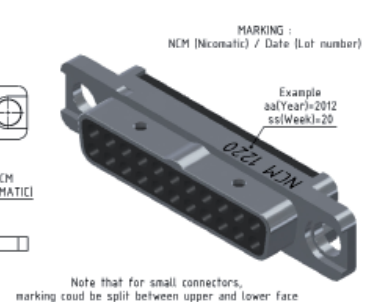
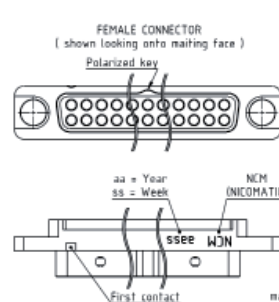
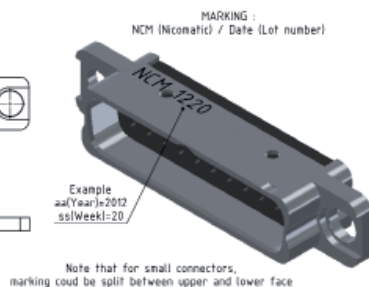
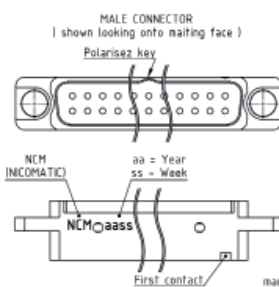
VERSION ON CABLE		
Shell type	Length L	
	Female	Male
Low profile C / S	2,30	2,20
Medium profile CP / SP	4,60	4,35
High profile CL / SL	7,80	7,35



		FEMALE CONNECTOR				
		PCB		CABLE		
		STRAIGHT	90°	C / S	CP / SP	CL / SL
MALE CONNECTOR	PCB	STRAIGHT	7,45	9,75	12,25	15,25
		90°	7,45	9,75	12,25	15,25
	CABLE	C / S	9,65	11,95	14,45	17,45
		CP / SP	11,80	14,10	16,60	19,60
		CL / SL	14,80	17,10	19,60	22,60



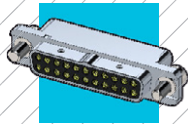
CONNECTOR MARKING





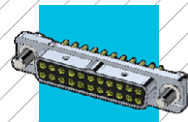
Classic DMM

- HIGH RELIABILITY
- COST EFFECTIVE
- EASY TO CHOOSE, FAST TO DELIVER
- MOST POPULAR MICRO-D SHELL SIZES



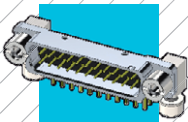
ON CABLE

PART NUMBERING.....	10
DIMENSION.....	10



STRAIGHT PCB

PART NUMBERING.....	11
DIMENSIONS.....	12



RIGHT ANGLE PCB

PART NUMBERING.....	13
DIMENSIONS.....	13

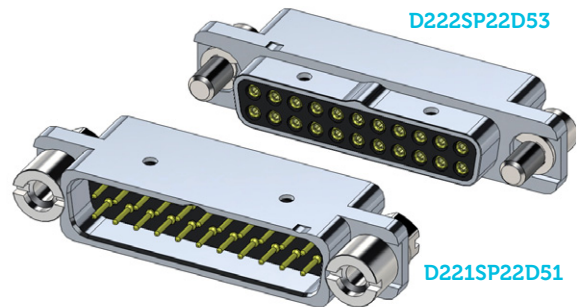
Classic DMM series: LF contacts, for harness applications or printed circuit boards.

Available in most popular shell sizes from the market, these standard connectors are easy to choose and fast to deliver with affordable price.



ON CABLE

- LOW FREQUENCY CONTACTS
- AWG22 / 24-28
- REMOVABLE CONTACTS



HOW TO ORDER ?

PART NUMBERING					
Classic DMM ON CABLE					
DMM	Series	Gender	LF contact type	Contact Layout	Fixing Hardware
D	22 - from 10 to 38 pins	1 - male	CP - for #22 AWG	10	D53 jackscrew for female connector
		2 - female	SP - for #24-28 AWG	16	
	32 - from 51 to 90 pins			22	
				26	
				32	D51 jackpost for male connector
MATING	D 53 → D51			38	
				51	
				90	



DIMENSIONS

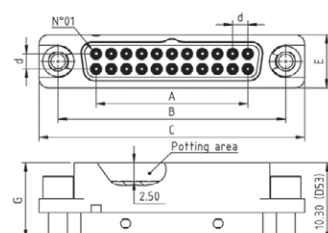
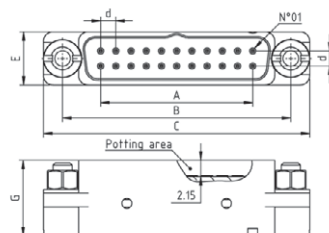
	Number of LF contacts	Gender	A	B	C	E	G
	10	M	8	18	23	7	10
		F	8	18	23	7	10
	16	M	14	24	29	7	10
		F	14	24	29	7	10
	22	M	20	30	35	7	10
		F	20	30	35	7	10
	26	M	24	34	39	7	10
		F	24	34	39	7	10
	32	M	30	40	45	7	10
		F	30	40	45	7	10
	38	M	36	46	51	7	10
		F	36	46	51	7	10
	51	M	32	42	47	9	10
		F	32	42	47	9	10
	90	M	58	68	73	9	10
		F	58	68	73	9	10

Dimensions

Male

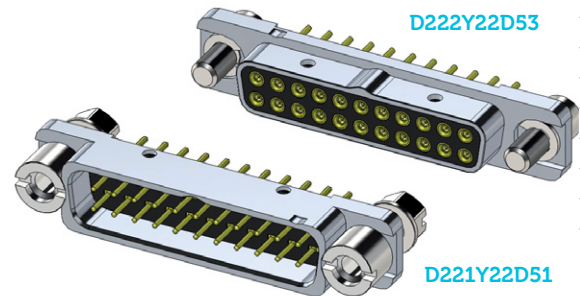
Female

d : pitch :2mm
Potting area:
male 2.15mm
female 2.50mm



STRAIGHT PCB

LOW FREQUENCY CONTACTS



HOW TO ORDER ?

PART NUMBERING					
Classic DMM STRAIGHT PCB					
DMM	Series	Gender	LF contact type	Contact Layout	Fixing Hardware
D	22 - from 10 to 38 pins	1 - male	Y - for PCB 1.6mm	10	D53 jackscrew PCB for female
	32 - from 51 to 90 pins	2 - female	YL - for PCB 3.2mm	16	
				22	D51 jackpost PCB 1.6mm for male
				26	
				32	D51L jackpost PCB ≤ 3.2mm for male
				38	
				51	
				90	

MATING

D 53 → D51
→ D51L

DIMENSIONS

	Number of LF contacts	Gender	A	B	C	E	G
	10	M	8	18	23	7	5.65
		F	8	18	23	7	5.20
	16	M	14	24	29	7	5.65
		F	14	24	29	7	5.20
	22	M	20	30	35	7	5.65
		F	20	30	35	7	5.20
	26	M	24	34	39	7	5.65
		F	24	34	39	7	5.20
	32	M	30	40	45	7	5.65
		F	30	40	45	7	5.20
	38	M	36	46	51	7	5.65
		F	36	46	51	7	5.20
	51	M	32	42	47	9	5.65
		F	32	42	47	9	5.20
	90	M	58	68	73	9	5.65
		F	58	68	73	9	5.20

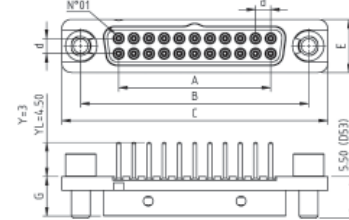
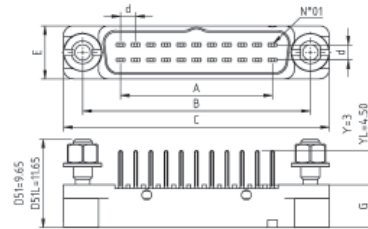


Dimensions

Male

Female

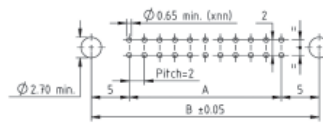
d : pitch :2mm



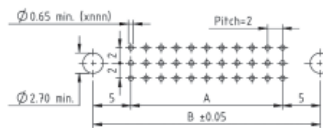
PCB Layout

Straight PCB

220 Y-YL

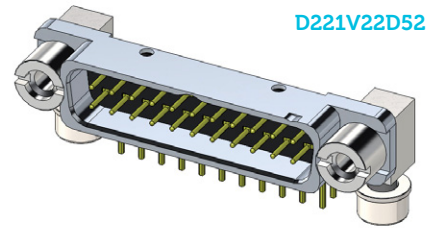


320 Y-YL



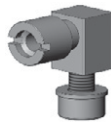
RIGHT ANGLE PCB

- LOW FREQUENCY CONTACTS
- ONLY MALE CONNECTORS

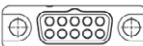
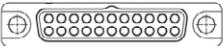
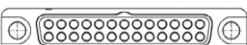


D221V22D52

→ HOW TO ORDER ?

PART NUMBERING							
Classic DMM RIGHT ANGLE PCB							
DMM	Series	Gender	LF contact type	Contact Layout	Fixing Hardware		
D	22 - from 10 to 38 pins	1 - male	V - for PCB 1.6mm	10	For 2 rows		
	32 - from 51 to 90 pins		VL - for PCB 3.2mm	16			
				22			
				26			
				32			
				38			
				51			
				90			
						For 3 rows	
						D52 jackpost PCB 1.6mm	
					D52M jackpost PCB 2.4mm		
					D52L jackpost PCB 3.2mm		
					D57 jackpost PCB 1.6mm		
					D57M jackpost PCB 2.4mm		
					D57L jackpost PCB 3.2mm		

→ DIMENSIONS

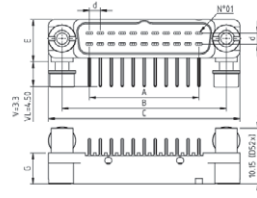
	Number of LF contacts	Gender	A	B	C	E	G
	10	M	8	18	23	7.75	5.65
	16	M	14	24	29	7.75	5.65
	22	M	20	30	35	7.75	5.65
	26	M	24	34	39	7.75	5.65
	32	M	30	40	45	7.75	5.65
	38	M	36	46	51	7.75	5.65
	51	M	32	42	47	9.75	5.65
	90	M	58	68	73	9.75	5.65



Dimensions

Male

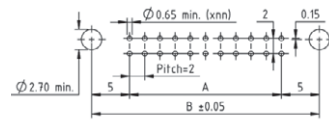
d : pitch :2mm



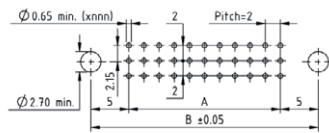
PCB Layout

Male

220 V-VL



320 V-VL



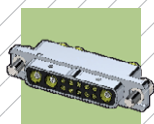


MY DMM

- HIGH RELIABILITY
- EASY TO CUSTOMIZE, EASY TO GET
- WIDER RANGE TO FIT YOUR DESIGN
- MIXED LAYOUT
- RACKING, LOCKING, PANEL MOUNT

INSERT ARRANGEMENTS 16

ON CABLE



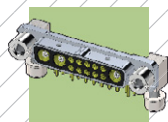
PART NUMBERING	18
DIMENSIONS	19

STRAIGHT PCB & SMT



PART NUMBERING	20
DIMENSIONS	21

RIGHT ANGLE PCB & SMT



PART NUMBERING	22
DIMENSIONS	24

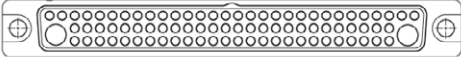
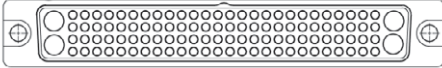
MyDMM series: LF, HF, HP or hybrid connectors, a range based on multi-contact arrangements, offering free positioning with pre-defined shell sizes. More than 60 fixing hardware options are available for easy integration. This series offers custom design possibilities with the advantage of an off-the-shelf product.



INSERT ARRANGEMENTS

➔ DISCOVER ALL INSERT ARRANGEMENTS

ROWS	Shell size	Number of LF contacts	Number of HP / HF contacts	View
1 ROW	4	4	0	
2 ROWS	10	10	0	
		6	1	
		2	2	
2 ROWS	16	16	0	
		12	1	
		8	2	
		4	3	
		0	4	
2 ROWS	22	22	0	
		18	1	
		14	2	
		10	3	
		6	4	
2 ROWS	26	2	5	
		26	0	
		22	1	
		18	2	
		14	3	
2 ROWS	32	10	4	
		6	5	
		2	6	
		32	0	
		28	1	
2 ROWS	38	24	2	
		20	3	
		16	4	
		12	5	
		8	6	
2 ROWS	51	4	7	
		0	8	
		38	0	
		34	1	
		30	2	
2 ROWS	51	26	3	
		22	4	
		18	5	
		14	6	
		10	7	
3 ROWS	51	6	8	
		2	9	
		51	0	
		47	1	
		43	2	
3 ROWS	51	39	3	
		35	4	
		31	5	
		27	6	
		23	7	
3 ROWS	51	19	8	
		15	9	
		11	10	
		7	11	
		3	12	

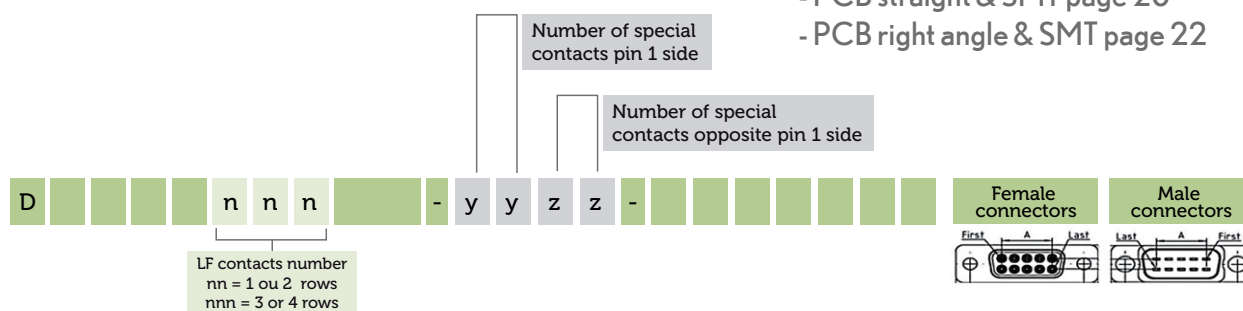
ROWS	Shell size	Number of LF contacts	Number of HP / HF contacts	View
3 ROWS	90	90	0	
		86	1	
		82	2	
		78	3	
		74	4	
		70	5	
		66	6	
		62	7	
		58	8	
		54	9	
		50	10	
		46	11	
		42	12	
		38	13	
		34	14	
		30	15	
		26	16	
		22	17	
		18	18	
		14	19	
		10	20	
		6	21	
		2	22	
4 ROWS	120	120	0	
		112	2	
		104	4	
		96	6	
		88	8	
		80	10	
		72	12	
		64	14	
		56	16	
		48	18	
		40	20	
		32	22	
		24	24	
		16	26	
		8	28	
		0	30	



HOW TO ORDER MY DMM IN 3 STEPS

- Select the number of pins according to table above
- Arrange HP/HF contacts positioning according to your need (top right, top left, on both sides)
- Complete your part number for each series:

- on cable page 18
- PCB straight & SMT page 20
- PCB right angle & SMT page 22

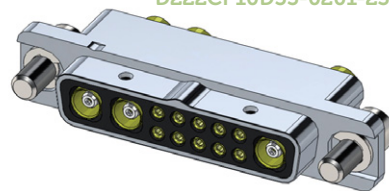




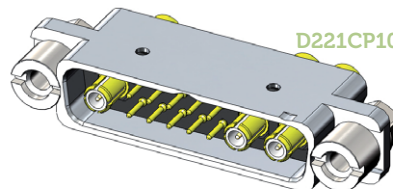
ON CABLE

- LOW FREQUENCY (LF), HIGH FREQUENCY (HF), HIGH POWER (HP) CONTACTS
- RACKING OR LOCKING HARDWARE
- REMOVABLE CONTACTS
- PANEL MOUNT

D222CP10DS3-0201-2312



D221CP10DS1-0201-1312



→ HOW TO ORDER ?

PART NUMBERING								
MY DMM ON CABLE								
DMM	Series	Gender	LF contact type	LF contact Layout	Fixing Hardware		HF / HP contact Layout	HF / HP contact type
				Number of contacts	Screw locking		Number of contacts	Not applicable for 1 row
D	10 - 1 row	1 - male	CP	From 2 to 120	D53		From 1 to 30	HIGH POWER
	22 - 2 rows	2 - female	SP	Refer to p.16/17	D51		Refer to p.16/17	For male connectors
	32 - 3 rows		E		D51L			3305 - 5Amp - AWG20
	42 - 4 rows		0 LF contacts* (for special configurations only)		D55D			3308 - 8Amp - AWG18
					Rack locking			3310 - 10Amp - AWG16-18-20
					D63			3315 - 15Amp - AWG14
					D64			3320 - 20Amp - AWG12
					D64L			For female connectors
					D65D			4305 - 5Amp - AWG20
								4308 - 8Amp - AWG18
								4310 - 10Amp - AWG16-18-20
								4315 - 15Amp - AWG14
								4320 - 20Amp - AWG12
								HIGH FREQUENCY COAX
								For male connectors
								1312 - for cable Ø 1.2mm
								1320 - for cable Ø 2mm
								1324 - for cable Ø 2.4mm
								1326 - for cable Ø 2.6mm
								1347 - for cable type UT47
								1385 - for cable type UT85
								For female connectors
								2312 - for cable Ø 1.2 mm
								2320 - for cable Ø 2 mm
								2324 - for cable Ø 2.4 mm
								2326 - for cable Ø 2.6 mm
								2347 - for cable type UT47
								2385 - for cable type UT85

MATING

D 53 → D51
→ D51L
→ D55D

D63 → D64
→ D64L
→ D65D

For other panel thicknesses, please refer to Exclusive DMM page 27.

*In case of no LF contacts, please specify "00".



DIMENSIONS

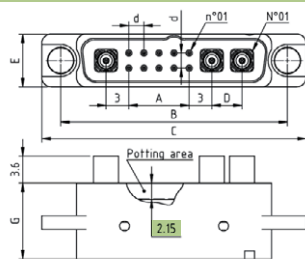
Example with all LF arrangements. Mixed-layout also possible.

	Number of LF contacts	Gender	A	B	C	E	G
	4	M	6	16	21	5	10
		F	6	16	21	5	10
	10	M	8	18	23	7	10
		F	8	18	23	7	10
	16	M	14	24	29	7	10
		F	14	24	29	7	10
	22	M	20	30	35	7	10
		F	20	30	35	7	10
	26	M	24	34	39	7	10
		F	24	34	39	7	10
	32	M	30	40	45	7	10
		F	30	40	45	7	10
	38	M	36	46	51	7	10
		F	36	46	51	7	10
	51	M	32	42	47	9	10
		F	32	42	47	9	10
	90	M	58	68	73	9	10
		F	58	68	73	9	10
	120	M	58	68	73	11	10
		F	58	68	73	11	10

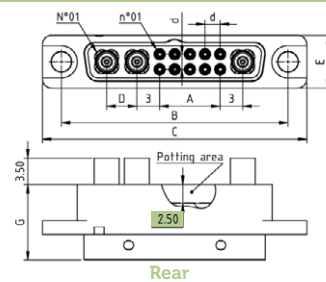
Dimensions

d : pitch : 2mm
D : pitch : 4mm
Potting area:
male 2.15mm
female 2.50mm

Male

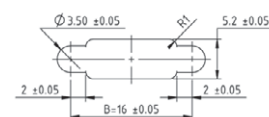
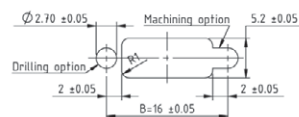


Female



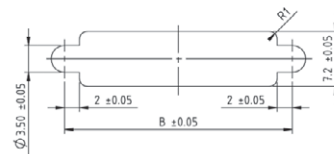
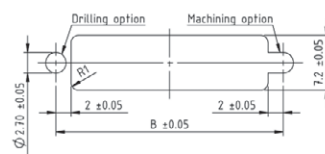
Panel cut

100 CP - SP - EP



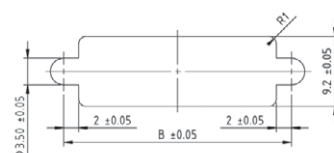
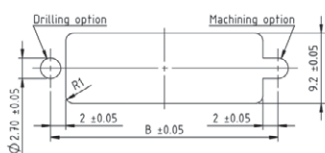
220 CP - SP - EP

Dimensions in mm :
B = (yy+zz) x 4 + A + 10
Bmax. = 68



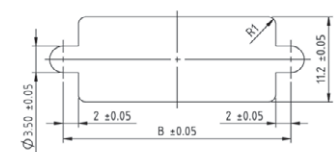
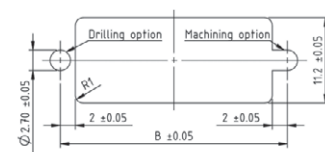
320 CP - SP - EP

Dimensions in mm :
B = A + 10
Bmax. = 68



420 CP - SP - EP

Dimensions in mm :
B = A + 10
Bmax. = 68



Panel cut is the same for male or female connectors

M = MALE | F = FEMALE | DIMENSIONS ARE IN MM

ICONATIC



STRAIGHT PCB & SMT

- LF FREQUENCY (LF), HIGH FREQUENCY (HF), HIGH POWER (HP) CONTACTS
- RACKING OR LOCKING HARDWARE
- SMT LF CONTACTS AVAILABLE



→ HOW TO ORDER ?

PART NUMBERING								
MY DMM STRAIGHT PCB								
DMM	Series	Gender	LF contact type	LF contact Layout	Fixing Hardware	HF / HP contact Layout	HF / HP contact type	
Screw locking								
D	10 - 1 row	1 - male	Y for PCB 1.6mm	From 2 to 120	D53 jackscrew	From 1 to 30 Refer to p.16/17	HIGH POWER For male connectors 3300 DMM for PCB 1.6mm 3300 45 for PCB 3.2mm For female connectors 4300 DMM for PCB 1.6mm 4300 45 for PCB 3.2mm HIGH FREQUENCY For male connectors 1300 DMM for PCB 1.6mm 1300 45 for PCB 3.2mm For female connectors 2300 DMM for PCB 1.6mm 2300 45 for PCB 3.2mm	
	22 - 2 rows	2 - female	YL for PCB 3.2mm	Refer to p.16/17	D51 jackpost for PCB 1.6mm			
	32 - 3 rows		T Straight SMT		D51L jackpost for PCB 2.4 to 3.2mm			
	42 - 4 rows		D 0 LF contacts* (for special configurations only)		D55D jackpost Rear panel 2mm / PCB 1.6mm			
Rack locking								
					D63 - guide pin for PCB 1.6mm			
					D64 - guide socket for PCB 1.6 mm			
					D64L - guide socket for PCB 2.4 to 3.2mm			
					D65D - guide socket Rear panel 2 mm			

MATING

D 53 → D51
→ D51L
→ D55D

D63 → D64
→ D64L
→ D65D

*In case of no LF contacts, please specify "00".



DIMENSIONS

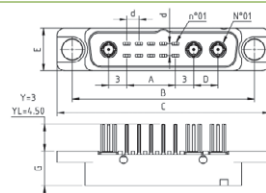
Example with all LF arrangements. Mixed-layout also possible.

	Number of LF contacts	Gender	A	B	C	E	G
	4	M	6	16	21	5	5.65
		F	6	16	21	5	5.20
	10	M	8	18	23	7	5.65
		F	8	18	23	7	5.20
	16	M	14	24	29	7	5.65
		F	14	24	29	7	5.20
	22	M	20	30	35	7	5.65
		F	20	30	35	7	5.20
	26	M	24	34	39	7	5.65
		F	24	34	39	7	5.20
	32	M	30	40	45	7	5.65
		F	30	40	45	7	5.20
	38	M	36	46	51	7	5.65
		F	36	46	51	7	5.20
	51	M	32	42	47	9	5.65
		F	32	42	47	9	5.20
	90	M	58	68	73	9	5.65
		F	58	68	73	9	5.20
	120	M	58	68	73	11	5.65
		F	58	68	73	11	5.20

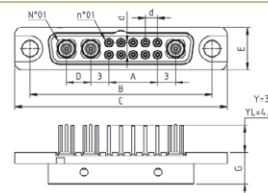
Dimensions

d : pitch : 2mm
D : pitch : 4mm

Male

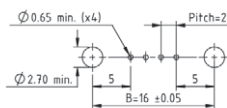


Female

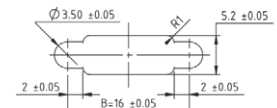


PCB layout / Rear panel cut

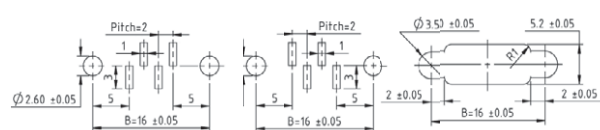
100 Y - YL



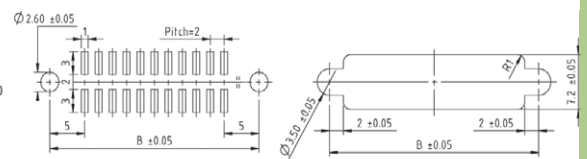
Rear



100 T | 220 T

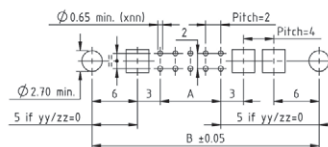


Dimensions in mm :
 $B = (yy+zz) \times 4 + A + 10$
 $B_{max} = 68$

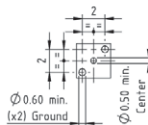


220 Y - YL

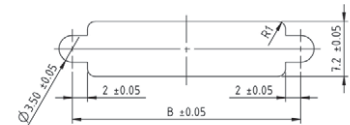
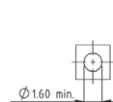
Dimensions in mm :
 $B = (yy+zz) \times 4 + A + 10$
 $B_{max} = 68$



HF

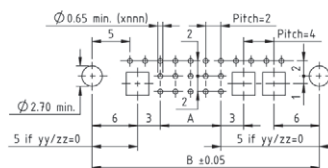


HP

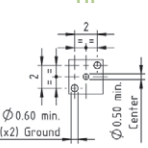


320 Y - YL

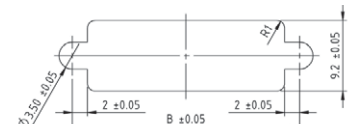
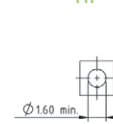
Dimensions in mm :
 $B = A + 10$
 $B_{max} = 68$



HF

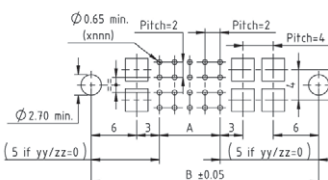


HP

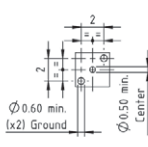


420 Y - YL

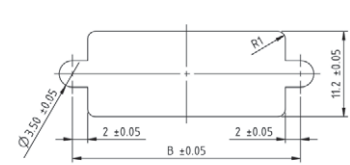
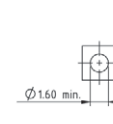
Dimensions in mm :
 $B = A + 10$
 $B_{max} = 68$



HF



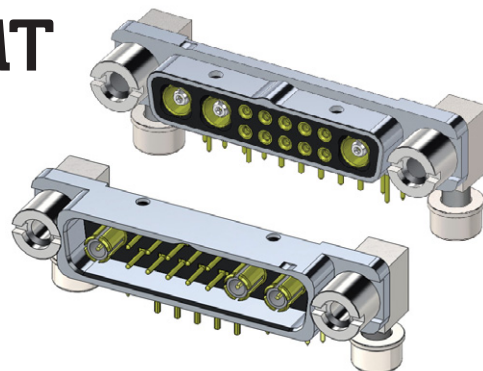
HP





RIGHT ANGLE PCB & SMT

- LOW FREQUENCY (LF), HIGH FREQUENCY (HF), HIGH POWER (HP) CONTACTS
- MALE / FEMALE FIXING INTERCHANGEABLE
- RACKING OR LOCKING HARDWARE
- SMT LF CONTACTS AVAILABLE



D222V10D52M-0201-2400DMM

D221V10D53-0201-1400DMM

→ HOW TO ORDER ?

PART NUMBERING								
MY DMM RIGHT ANGLE PCB LOCKING								
DMM	Series	Gender	LF contact type	LF contact Layout	Fixing Hardware	HF /HP contact Layout	HF /HP contact type	
D	10 - 1 row	1 - male	V	From 2 to 90	Screw locking		From 1 to 15 Refer to p.16/17	HIGH POWER For male connectors 3400 DMM for PCB 1.6mm For female connectors 4400 DMM for PCB 1.6mm HIGH FREQUENCY For male connectors 1400 DMM for PCB 1.6mm For female connectors 2400 DMM for PCB 1.6mm
	22-2 rows	2 - female	VL	Refer to p.16/17	D53 size: M2.5 jackscrew inner hexagonal			
	32 - 3 rows		for PCB 1.6mm		For 1 row connector			
			for PCB 3.2mm		D60 jackpost for PCB 1.6mm			
			R		D60M jackpost for PCB 2.4mm			
			Right Angle SMT		D62MD jackpost front panel 2mm PCB 2.4mm			
			D		For 2 rows connector			
			0 LF contacts* (for special configurations only)		D52 jackpost for PCB 1.6mm			
					D52M jackpost for PCB 2.4mm			
					D56MD jackpost rear panel 2mm PCB 2.4mm			
				For 3 rows connector				
				D57 jackpost for PCB 1.6mm				
				D57M jackpost for PCB 2.4mm				
				D59MD jackpost rear panel 2mm PCB 2.4mm				

MATING

D 53 → ALL

*In case of no LF contacts, please specify "00".

→ HOW TO ORDER ?

PART NUMBERING							
MY DMM RIGHT ANGLE PCB RACKING							
DMM	Series	Gender	LF contact type	Signal contact Layout	Fixing Hardware	Coax / Power contact Layout	Coax / Power contact type
D	10 - 1 row	1 - male	V for PCB 1.6mm	From 2 to 90	Rack locking D63 size: M2.5 guide pin for PCB 1.6mm 	From 1 to 15	HIGH POWER
	22-2 rows	2 - female	VL for PCB 3.2mm	Refer to p.16/17	For 1 row connector D71 guide socket for PCB 1.6mm 	Refer to p.16/17	For male connectors 3400 DMM for PCB 1.6mm
	32 - 3 rows		R Right angle SMT D for 0 LF contacts* (for special configurations only)		D71M guide socket for PCB 2.4mm 		For female connectors 4400 DMM for PCB 1.6mm
					For 2 rows connector D68 guide socket for PCB 1.6mm 		HIGH FREQUENCY
					D68M guide socket for PCB 2.4mm 		For male connectors 1400 DMM for PCB 1.6mm
					D74MD guide socket rear panel 2mm / PCB 2.4mm 		For female connectors 2400 DMM for PCB 1.6mm
					For 3 rows connector D72 guide socket for PCB 1.6mm 		
					D72M guide socket for PCB 2.4 mm 		
					D75MD guide socket rear panel / PCB 2.4mm 		

MATING

D63 → ALL

*In case of no LF contacts, please specify "00".

M = MALE | F = FEMALE | DIMENSIONS ARE IN MM

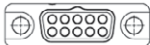
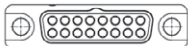
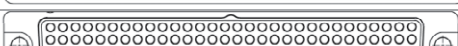


RIGHT ANGLE PCB & SMT



DIMENSIONS

Example with all LF arrangements. Mixed-layout also possible.

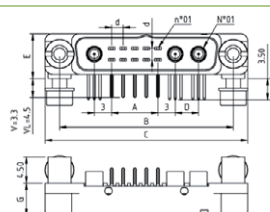
	Number of LF contacts	Gender	A	B	C	E	G
	4	M	6	16	21	5.75	5.65
		F	6	16	21	5.75	5.20
	10	M	8	18	23	7.75	5.65
		F	8	18	23	7.75	5.20
	16	M	14	24	29	7.75	5.65
		F	14	24	29	7.75	5.20
	22	M	20	30	35	7.75	5.65
		F	20	30	35	7.75	5.20
	26	M	24	34	39	7.75	5.65
		F	24	34	39	7.75	5.20
	32	M	30	40	45	7.75	5.65
		F	30	40	45	7.75	5.20
	38	M	36	46	51	7.75	5.65
		F	36	46	51	7.75	5.20
	51	M	32	42	47	9.75	5.65
		F	32	42	47	9.75	5.20
	90	M	58	68	73	9.75	5.65
		F	58	68	73	9.75	5.20
	120	M	58	68	73	11.75	5.65
		F	58	68	73	11.75	5.20

Dimensions

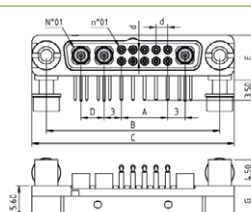
d : pitch : 2mm

D : pitch : 4mm

Male



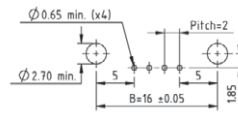
Female



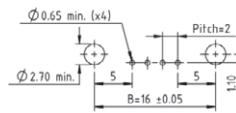
PCB layout

100 V - VL - D

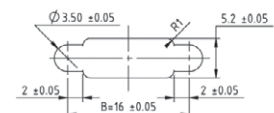
Male



Female



Rear Panel cut



220 V - VL - D (no LF)

Male only

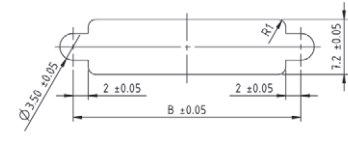
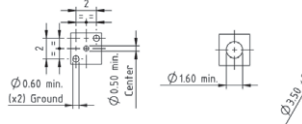
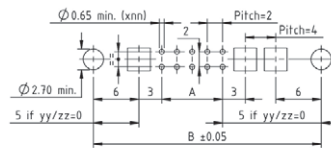
HF

HP

Dimensions in mm :

$$B = (yy+zz) \times 4 + A + 10$$

$$B_{max.} = 68$$



320 V - VL - D (no LF)

Male only

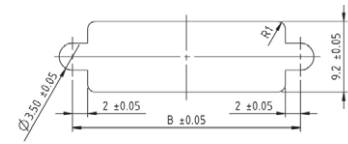
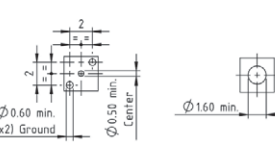
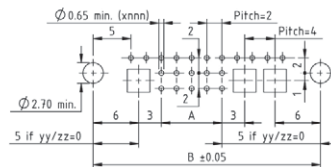
HF

HP

Dimensions in mm :

$$B = A + 10$$

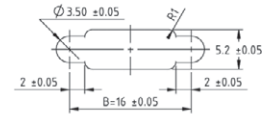
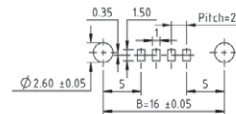
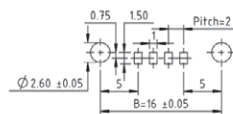
$$B_{max.} = 68$$



Male

Female

100 R



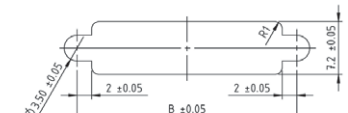
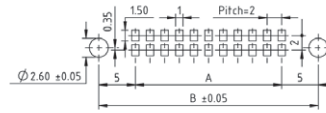
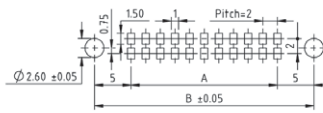
220 R

Dimensions in mm :

$$A = nn \times 2$$

$$B = A + 10$$

$$B_{max.} = 68$$



320 R

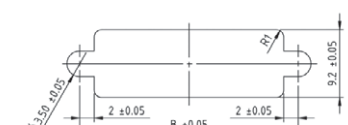
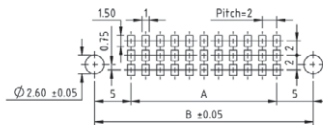
No female

Dimensions in mm :

$$A = ((nn \times 2) / 3) - 2$$

$$B = A + 10$$

$$B_{max.} = 68$$





EXCLUSIVE DMM

UPON REQUEST ONLY

- HIGH RELIABILITY
- MILLIONS OF POSSIBLE DESIGNS
- BESPOKE DMM
FOR UNIQUE CONSTRAINTS

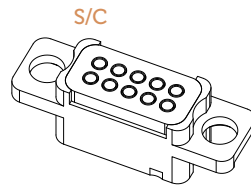
RANGE CAPABILITIES

SHELL PROFILES	27
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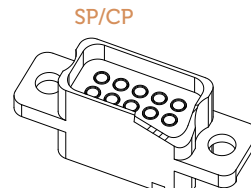
Exclusive DMM series: LF, HF, HP or mixed contacts of any size, any length. A higher number of arrangements is possible. The number of rows can be changed according to application constraints. These tailor-made connectors optimize space and weight savings.

EXCLUSIVE DMM UPON REQUEST ONLY*

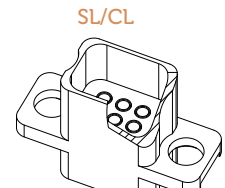
SHELL PROFILES FOR CABLE



Low profile: 7.5/7.8mm



Medium profile: 10mm



High profile: 13mm

INSERT ARRANGEMENTS

LF arrangements	Series	Profile	LF
	D100	○○○○	1 row 2 to 30 pins
	D220	○○○○ ○○○○	2 rows 4 to 60 pins
	D320	○○○○ ○○○○ ○○○○	3 rows 6 to 90 pins
	D420	○○○○ ○○○○ ○○○○ ○○○○	4 rows 8 to 120 pins

Mixed arrangements	Series	Profile	LF	HP/HF
	D220	○ ○ ○ ○ ○ ○	2 rows 2 to 56 pins	1 row 1 to 15 pins
	D320	○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	3 rows 2 to 86 pins	1 row 1 to 15 pins
	D420	○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	4 rows 4 to 112 pins	2 rows 2 to 30 pins
	D430	○ ○	4 rows 4 to 116 pins	2 rows 1 to 29 pins

CONTACT TYPES

DMM series		series	LF contact											HF contact				HP contact						
			PCB						On cable to crimp or to solder					PCB		Cable		PCB		Cable				
			Straight 1.6 / 3.2		Right angle 1.6 / 3.2		Straight SMT		Right angle SMT		AWG24-28	AWG22	AWG24-28	AWG22	AWG24-28	AWG22	Straight	Right angle	Straight crimp /solder	Right angle crimp/solder	Straight	Right angle	Straight crimp/solder	Right angle Crimp/solder
			Y	YL	V	VL	T	R	S	C	SP	CP	SL	CL	Straight	Right angle	Straight crimp /solder	Right angle crimp/solder	Straight	Right angle	Straight crimp/solder	Right angle Crimp/solder		
1 row	M	D101																						
	F	D102																						
2 rows	M	D221																						
	F	D222																						
3 rows	M	D321																						
	F	D322																						
4 rows	M	D421																						
	F	D422																						
4 rows	M	D431																						
	F	D432																						

□ Not available : contact us

C-S = Use with C-S shell type only

OPTIONS

Backpotting available
 Harness with different cable configurations (length, type, color) and backpotting option
 Different fixing functions: panel/PCB thicknesses, reverse fixings, SMT...
 Different shells

HOW TO ORDER

Contact your local support : customsolution@nicomatic.fr

*Upon request connectors are configurable with a standard part numbering system and available in short lead-time.
 Contact us!



CABLE ASSEMBLY TOOLS



LF CONTACTS

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HP CONTACTS

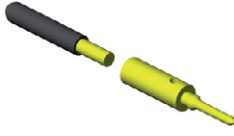
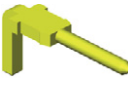
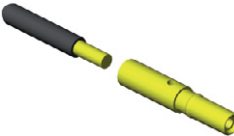
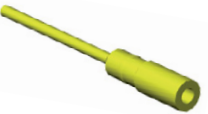
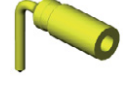
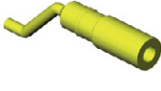
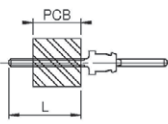
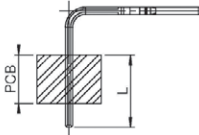
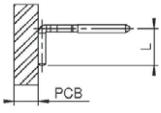
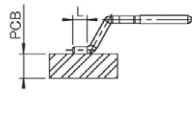
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HF CONTACTS

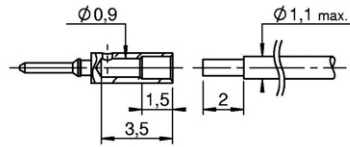
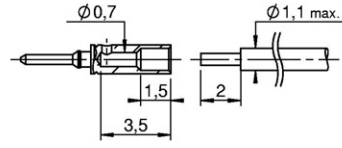
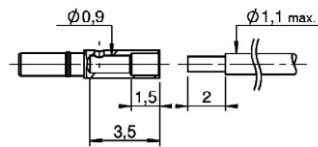
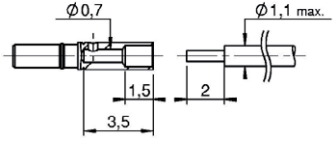
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LF CONTACTS

CONTACTS TYPES

	Crimp on cable	Straight PCB Type Y	Right Angle PCB Type V	Straight SMT Type T	Right Angle SMT Type R
Male					
Female					
					

CRIMP CONTACTS

	Gauge wire	Reference	Type	2D
Male	AWG 22	12960	C CP CL	
	AWG 24 - 28	12969	S SP SL	
Female	AWG 22	C13064-P	C CP CL	
	AWG 24 - 28	C12468	S SP SL	



LF CONTACTS

→ CONTACTS AVAILABILITY

Typical use									
CRIMP				PCB				SMT	
				Straight		90°		Straight	90°
1 ROW	Male	C - CP - CL AWG 22	S - SP - SL AWG 24 - 28	Y	YL	V	VL	T	R
	Female	C - CP - CL AWG 22	S - SP - SL AWG 24 - 28	Y	YL	V	VL	T	R
2 ROWS	Male	C - CP - CL AWG 22	S - SP - SL AWG 24 - 28	Y	YL	V	VL	T	R
	Female	C - CP - CL AWG 22	S - SP - SL AWG 24 - 28	Y	YL	V	VL	T	R
3 ROWS	Male	C - CP - CL AWG 22	S - SP - SL AWG 24 - 28	Y	YL	V	VL		R
	Female	C - CP - CL AWG 22	S - SP - SL AWG 24 - 28	Y	YL	V			
4 ROWS	Male	C - CP - CL AWG 22	S - SP - SL AWG 24 - 28	Y	YL				
	Female	C - CP - CL AWG 22	S - SP - SL AWG 24 - 28	Y	YL				

Available in All DMM Available in My DMM and Exclusive DMM Y/V: for PCB 1.6mm YL/VL: for PCB 3.2mm T: L = 2.25mm

→ HAND CRIMP TOOLS AND SET UP

SELECT YOUR CRIMP TOOLS FOR (LF) CONTACTS

Tools	Part Number
Crimp Tool - DANIELS MH800	MH800
Positioner K1692	C12929
Kit Tool - DANIELS MH800 + Positioner K1692	C14925



SET UP YOUR CRIMP TOOLS FOR (LF) CONTACTS*

	Wire AWG Contact Type	Contact part number	Crimp Tool setting	Diameter X	2D
Male	22 - C - CP - CL	12960	6	0,9	
	24 - S - SP - SL	12969	7	0,7	
	26 / 28 - S - SP - SL		6	0,7	
Female	22 - C - CP - CL	C13064-P	6	0,9	
	24 - S - SP - SL	C12468	7	0,7	
	26 / 28 - S - SP - SL		6	0,7	

* according to wire AWG and contacts

LF CONTACTS

→ CRIMP INSTRUCTIONS ICLF01

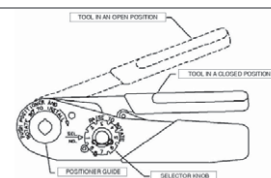
Set the hand crimp tool according to crimp barrel accommodation table above

Select the crimp tool setting with the selector knob

Put the positioner K1692 in the positioner guide



Crimp Tool setting



Check the wire stripping

Insert the wire in the contact

The conductor must be visible through the inspection window of the contact



Insert the contact and wire assembly in the crimp guide of the hand crimp tool

In the crimp guide, the contact and wire assembly must be in the end stop position

During the crimping, keep the wire in position

Just one crimping operation is allowed per contact and wire assembly

Visually check the crimping

The crimping must not deform the inspection window

The contact must not have visible fractures or cracks

The contact barrel must not be deformed or bent

Check the contact is firmly crimped, by pulling gently

For that purpose,
two fingers are enough:
pinch the wire and pull smoothly
along the axis of the crimped contact

	AWG	Newton	
		Silver/tin plated wire	Nickel plated wire
LF contacts	28	13.4	8.9
	26	22.3	13.4
	24	35.6	26.7
	22	53.4	35.6

Nicomatic results > to IPC/WHMA-A-620A as shown above

→ INSERTION / EXTRACTION HAND TOOLS

HOW TO ORDER YOUR INSERTION / EXTRACTION TOOLS? PART NUMBER

Check the wire stripping

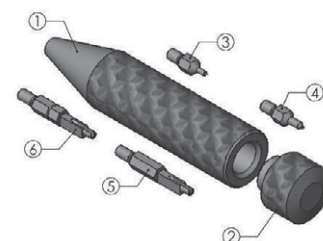
Kit Insertion/Extraction Tool - Body, plug, insertion tips, extraction tips

C12935



Spare parts

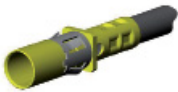
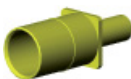
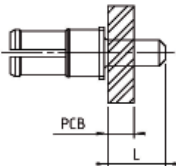
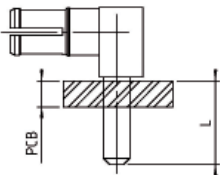
① Body	13241
② Plug	13240
③ Extraction Tip for female contact	13170
④ Extraction Tip for male contact	13242
⑤ Insertion Tip for AWG 24-28 (S)	13171
⑥ Insertion Tip for AWG 22 (C)	13172





HP CONTACTS

→ CONTACTS TYPES

	Straight Crimp	Straight Solder	Straight PCB	90° PCB
Male				
Female				
				

→ CONTACTS AVAILABILITY

		Typical use			
		CABLE	PCB		
		Straight Crimp or Solder	Straight	90°	
1 ROW	Male	–	–	–	–
	Female	–	–	–	–
2 ROWS	Male	30-33XX	30-3300DMM	30-3300-45	30-3400DMM
	Female	30-33XX	30-4300DMM	30-4300-45	30-4400DMM
3 ROWS	Male	30-33XX	30-3300DMM	30-3300-45	30-3400DMM
	Female	30-33XX	30-4300DMM	30-4300-45	30-4400DMM
4 ROWS	Male	30-33XX	30-3300DMM	30-3300-45	–
	Female	30-33XX	30-4300DMM	30-4300-45	–

Available in All DMM XX = Amp Eg. 08 for 8Amp (10-15-20)

HP CONTACTS

→ HAND CRIMP TOOLS AND SET UP

SELECT YOUR CRIMP TOOLS FOR HIGH POWER (HP) CONTACTS

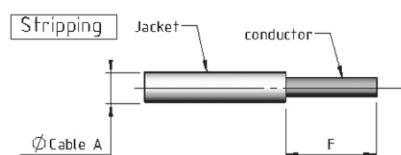
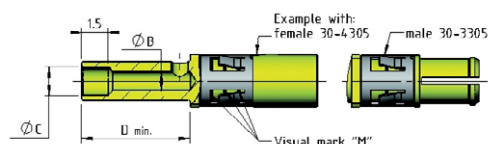
Tools	Part Number
Crimp Tool - AF8	16459
Positioner	C16460
Kit Tool - AF8 + Positioner C16460	C16462



SET UP YOUR CRIMP TOOLS FOR HIGH POWER (HP) CONTACTS*

		Crimp tool setting								
	Loaded contact part number	Unloaded contact part number	Amp	AWG	Number of visual marks	AWG20	AWG18	AWG16	AWG14	AWG12
Male	3305	30-3305	5	20	3	3				
	3308	30-3308	8	18	2		4			
	3310	30-3310	10	16-18-20	1	4	4	5		
	3315	30-3315	15	14	0				6	
	3320	30-3320	20	12	0					8
Female	4305	30-4305	5	20	3	3				
	4308	30-4308	8	18	2		4			
	4310	30-4310	10	16-18-20	1	4	4	5		
	4315	30-4315	15	14	0				6	
	4320	30-3320	20	12	0					8

* according to wire AWG, contacts and visuels marks



DIMENSIONS AND CONDUCTOR LENGTH

	Loaded contact part number	Unloaded contact part number	Amp	Length F conductor	B Ø	Cable A Ø
Male	3305	30-3305	5	4.5mm	1.1mm	<1.6mm
	3308	30-3308	8	4.5mm	1.35mm	<1.8mm
	3310	30-3310	10	6mm	1.7mm	–
	3315	30-3315	15	6mm	2mm	–
	3320	30-3320	20	5.3mm	2.6mm	–
Female	4305	30-4305	5	4.5mm	1.1mm	<1.6mm
	4308	30-4308	8	4.5mm	1.35mm	<1.8mm
	4310	30-4310	10	6mm	1.7mm	–
	4315	30-4315	15	6mm	2mm	–
	4320	30-3320	20	5.3mm	2.6mm	–

– Jacket not inserted in the pin

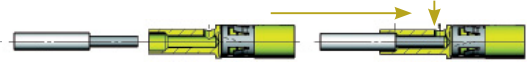


HP CONTACTS

→ CRIMP INSTRUCTIONS IC30HP02

Insert the cable into the contact

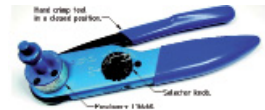
The conductor must be visible through the window of the contact



Set the hand crimp tool according to crimp barrel accommodation table above

Select the selector number with the selector knob (see crimp tool setting)

Put the positioner C16460 on the hand crimp tool 16459

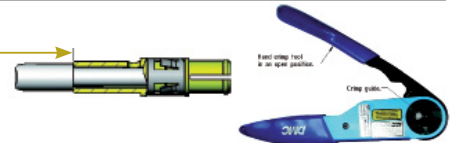


Insert the contact and wire assembly in the crimp guide of the hand crimp

In the crimp guide, the contact and wire assembly must be in the end stop position

During crimping, keep the wire in position

Just one crimping operation is allowed per contact and wire assembly



Visually check crimping

Crimping must not deform the inspection window

Contact must not have visible fractures or cracks

Contact barrel must not be deformed or bent

Crimping must not deform the end of the contact



Check it is firmly crimped by pulling gently

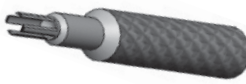
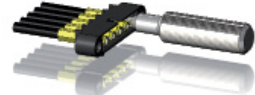
For that purpose two fingers are enough:
pinch the wire and pull smoothly
along the axis of the crimped contact

	AWG	Newton	
		Silver/tin plated wire	Nickel plated wire
HP contacts	20	89	84.6
	18	142	NE
	16	222.3	164.6
	14	311.5	266.9
	12	489.5	455

Nicomatic results > to IPC/WHMA-A-620A as shown above

→ EXTRACTION HAND TOOLS

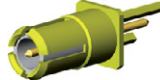
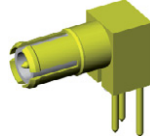
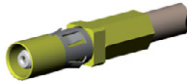
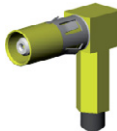
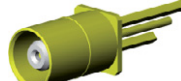
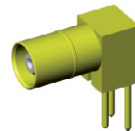
HOW TO ORDER YOUR EXTRACTION TOOLS FOR HIGH POWER?

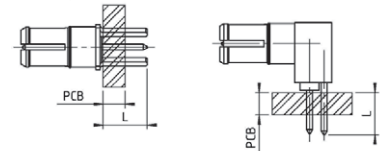
Tool	Part number		
Extraction tool	12368		

Also applicable for HF contacts

HF CONTACTS

CONTACTS TYPES

	Straight Cable	90° Cable	Straight PCB	90° PCB
Male				
Female				

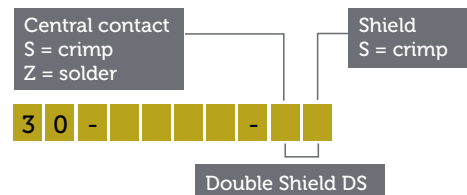


CONTACTS AVAILABILITY

Typical use							
CABLE				PCB			
	Straight	90°	Straight SMT		Straight	90°	
1 ROW	Male	–	–	–	–	–	–
	Female	–	–	–	–	–	–
2 ROWS	Male	30-13XX-SS 30-13XX-DS	30-14XX-ZS 30-14XX-DS	30-1600	30-1300DMM 30-1300-45	30-1400DM	
	Female	30-23XX-SS 30-23XX-DS	30-24XX-ZS 30-24XX-DS	30-2600	30-2300DM 30-2300-45	30-2400DM	
	Male	30-13XX-SS 30-13XX-DS	30-14XX-ZS 30-14XX-DS	–	30-1300DMM 30-1300-45	30-1300DMM	
	Female	30-23XX-SS 30-23XX-DS	30-24XX-ZS 30-24XX-DS	–	30-2300DMM 30-2300-45	30-2400DMM	
3 ROWS	Male	30-13XX-SS 30-13XX-DS	30-14XX-ZS 30-14XX-DS	–	30-1300DMM 30-1300-45	30-1300DMM	
	Female	30-23XX-SS 30-23XX-DS	30-24XX-ZS 30-24XX-DS	–	30-2300DMM 30-2300-45	30-2400DMM	
	Male	30-13XX-SS 30-13XX-DS	–	–	30-1300DMM 30-1300-45	–	
	Female	30-23XX-SS 30-23XX-DS	–	–	30-2300DMM 30-2300-45	–	

Central contact is soldered (= Z) or crimped (= S) Shield is always crimped (= S) Double shield (= DS)

XX = cable type Straight crimp XX = 12, 20, 24, 26
Eg. 24 = for 2.4mm Ø
XX = 20 or 26 for DS cable 90° crimp XX = 47, 85
Eg. 47 for UT47 cable



HF CONTACTS

→ CABLE RECOMMENDATIONS

	NORM			HF CONTACTS			CONNECTION MODE		
	MIL-C-17	NF C93-550	Ø Cable	Series	Gender	Contact P / N	Central contact	Shield	Impedance
HF CONTACTS	RG 178	KX 21 A	2mm	HF30	Male	30-1320-SS	Crimped	Crimped Hex. 2.4mm	50 Ohm
						30-1420-ZS	Solder		
					Female	30-2320-SS	Crimped		
						30-2420-ZS	Solder		
	RG 316	KX 22 A	2.7mm	HF30	Male	30-1326-SS	Crimped	Crimped Hex. 2.8mm	50 Ohm
						30-1426-ZS	Solder		
					Female	30-2326-SS	Crimped		
						30-2426-ZS	Solder		
	RG 174	KX 3 B	2.7mm	HF30	Male	30-1326-SS	Crimped	Crimped Hex. 2.8mm	50 Ohm
						30-1426-ZS	Solder		
					Female	30-2326-SS	Crimped		
						30-2426-ZS	Solder		
	RG 179		2.7mm	HF30	Male	30-1326-SS-75	Crimped	Crimped Hex. 2.8mm	75 Ohm
						30-1426-ZS-75	Solder		
					Female	30-2326-SS-75	Crimped		
						30-2426-ZS-75	Solder		

				HF CONTACTS			CONNECTION MODE		
	Supplier	P / N	Ø Cable	Series	Gender	Contact P / N	Central contact	Shield	Impedance
SEMI-RIGID		UT47	1.2mm	HF30	Male	30-1347-ZZ	Solder	Solder	50 Ohm
						30-1447-ZZ			
					Female	30-2347-ZZ			
						30-2447-ZZ			
	(Axon*)	UT85 (QFX 86 SPCW *)	2.2mm	HF30	Male	30-1385-ZZ	Solder	Solder	50 Ohm
						30-1485-ZZ			
					Female	30-2385-ZZ			
						30-2485-ZZ			

Specific sleeve upon request



HF CONTACTS

→ CABLE RECOMMENDATIONS

	Supplier	P / N	Ø Cable	HF CONTACTS			CONNECTION MODE		
				Series	Gender	Contact P / N	Central contact	Shield	Impedance
SPECIAL	Nexans (Axon*)	50VMTX (SM 50 *)	1.2mm	HF30	Male	30-1312-ZS-01	Solder	Crimped Hex. 19mm	50 Ohm
						(30-1312-ZS-02 *)			
					Female	30-1412-ZS			
						30-2312-ZS-01			
						(30-2312-ZS-02 *)			
		75VMTX (SM 75 *)	1.2mm	HF30	Male	30-2412-ZS			
						30-1312-ZS-75-01			
						(30-1312-ZS-75-02 *)			
					Female	30-1412-ZS-75			
						30-2312-ZS-75-01			
						(30-2312-ZS-75-02 *)			
	Axon RG 178 DT	P 500955	2.3mm	HF30	Male	30-2412-ZS-75			
						30-1320-DS			
					Female	30-1420-DS			
						30-2320-DS			
		P 812817	2.3mm	HF30	Male	30-2420-DS		Crimped Hex. 2,8mm	50 Ohm
						30-1324-DS			
					Female	30-1424-DS			
						30-2324-DS			
	Axon PTFE Cellular	P 804298 B	2.4mm	HF30	Male	30-2424-DS			
						30-1324-DS-75			
					Female	30-1424-DS-75		Crimped Hex. 2.8mm	75 Ohm
						30-2324-DS-75			
		P 0530912	2.7mm	HF30	Male	30-2424-DS-75			
						30-1326-DS			
					Female	30-1426-DS		Crimped Hex. 3.25mm	50 Ohm
						30-2326-DS			
	Axon RG 179 DT	P 530268	3.0mm	HF30	Male	30-2426-DS			
						30-1326-DS-75			
					Female	30-1426-DS-75		Crimped Hex. 3.25mm	75 Ohm
						30-2326-DS-75			
					Male	30-2426-DS-75			
						30-1326-DS-75			

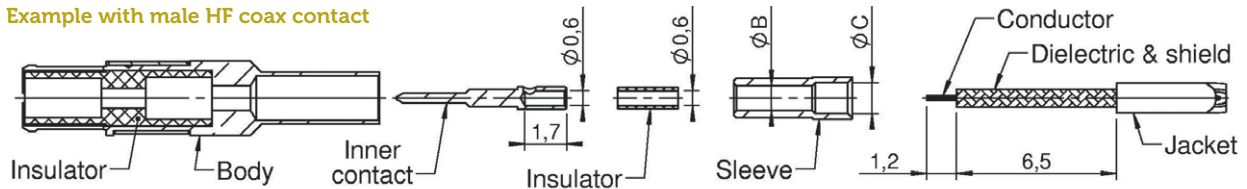
DT = DS = double shield

	ØB	ØC	Sleeve
P/N terminal -01 for 50VMTX cable type	1mm	1.25mm	
P/N terminal -02 for SM 50 cable type	0.85mm	1.15mm	

HF CONTACTS

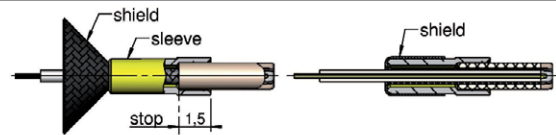
→ CRIMP INSTRUCTIONS IC30HF01

Example with male HF coax contact



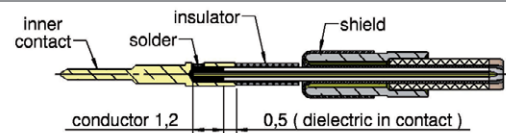
Thread the sleeve until stop on to the cable

Place the shield on the sleeve

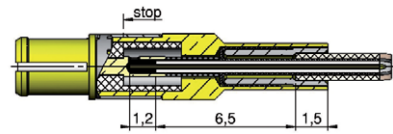


Thread the insulator

Solder the inner contact on the conductor



Thread to the body

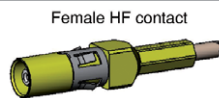


Crimp

Tool: DANIELS HX3

Die: C13847

Hexagone: 1.9mm / flat



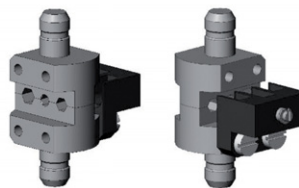
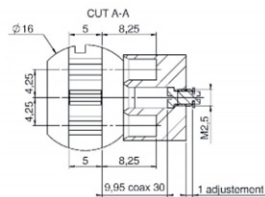
Female HF contact

	ØB	ØC	Sleeve
P/N Terminal -01	1	1,25	ØB ØC
P/N Terminal -02	0,85	1,15	ØB ØC



Male HF contact

Position: 9.95mm



→ EXTRACTION HAND TOOLS

HOW TO ORDER YOUR EXTRACTION TOOLS FOR HIGH FREQUENCY?

Tool

Part number

Extraction tool

12368



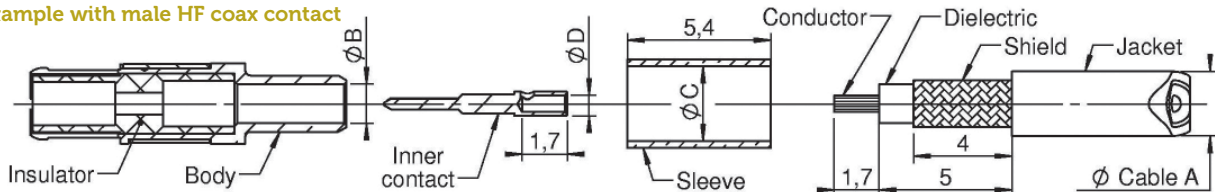
Also applicable for HP contacts



HF CONTACTS

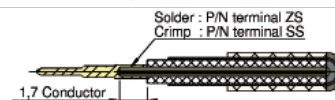
→ CRIMP INSTRUCTIONS IC30HF02

Example with male HF coax contact

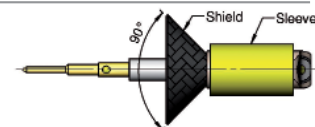


Mount the inner contact on the conductor

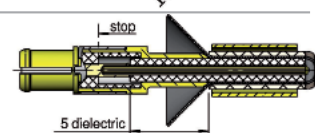
Solder or crimp with DANIELS MH800 positionner K1131



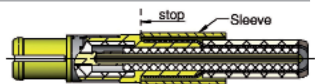
Thread the sleeve onto the cable and bent the shield at 90°



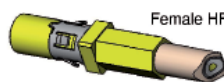
Push until stop inside the body



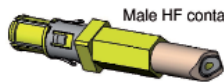
Thread the sleeve until stop on the body so as to bent the shield



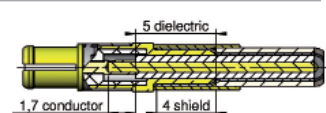
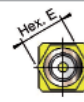
Crimp the sleeve



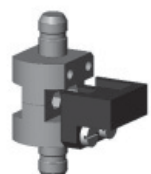
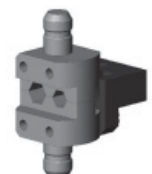
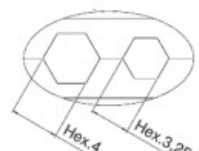
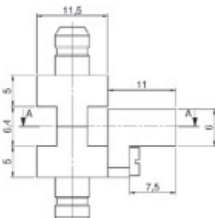
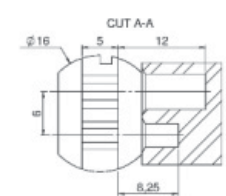
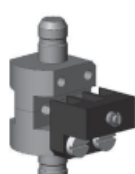
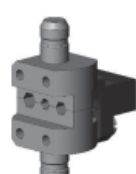
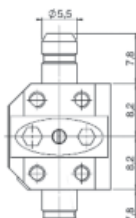
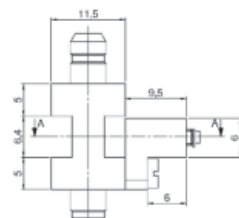
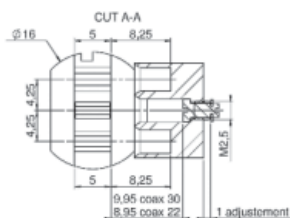
Female HF contact



Male HF contact



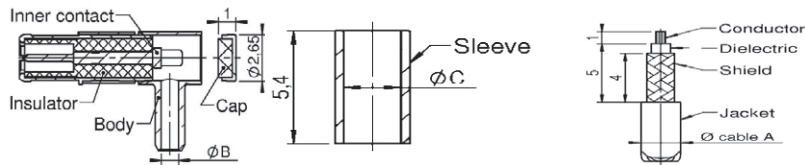
	Cable Ø A	Body Ø B	Sleeve Ø C	Contact Ø D	Central crimp DANIELS MH800		Hexagonal imprint E sleeve crimp DANIELS HX3 tool				
					Positioner K1131		Die C13847			Die C14680	
					Conductor Ø 0.3	Conductor Ø 0.5	Hex. 1.9	Hex. 2.4	Hex. 2.8	Hex. 3.25	Hex. 4
30-x320-SS	2mm	1mm	2.2mm	0.5mm	Position 2 / 3	Position 3 / 4					
30-x320-DS	2.3mm	1mm	2.8mm	0.5mm							
30-x324-SS	2.4mm	1.5mm	2.8mm	0.6mm							
30-x326-SS	2.7mm	1.7mm	2.8mm	0.6mm							
30-x326-DS	3mm	1.7mm	3.25mm	0.6mm							



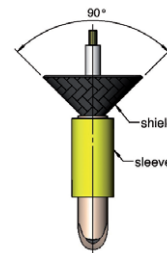
HF CONTACTS

→ CRIMP INSTRUCTIONS IC30HF03

Example with male HF coax contact

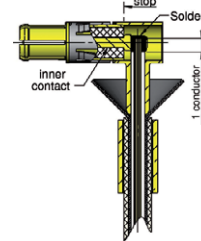


Thread the sleeve on cable and bent the shield at 90°

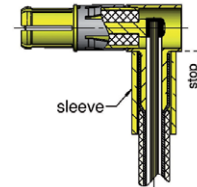


Place the inner contact until stop on the body.

Insert the cable and solder the conductor onto the inner contact

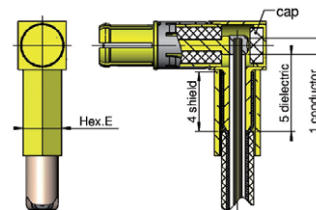
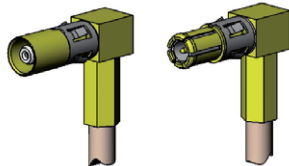


Thread the sleeve until stop on the body so as to bent the shield



Crimp the sleeve with DANIELS HX3 tool and mount the back cap with tool P/N C14772

Female HF contact Male HF contact



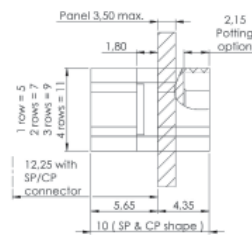
					Hexagonal imprint E sleeve crimp DANIELS HX3 tool				
	Cable Ø A	Body Ø B	Sleeve Ø C	Contact	Die C13847			Die C14680	
					Hex. 19	Hex. 2.4	Hex. 2.8	Hex. 3.25	Hex. 4
30-x412-ZS	1.2 mm	0.7mm	1.3mm	solder					
30-x420-ZS	2mm	1mm	2.2mm	solder					
30-x420-DS	2.3mm	1mm	2.8mm	solder					
30-x424-ZS	2.4mm	1.5mm	2.8mm	solder					
30-x426-ZS	2.7mm	1.7mm	2.8mm	solder					
30-x426-DS	3mm	1.7mm	3.25mm	solder					



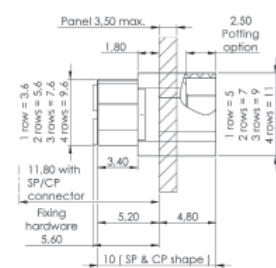
DMM PANEL MOUNT INFORMATION

→ FRONT PANEL

Male

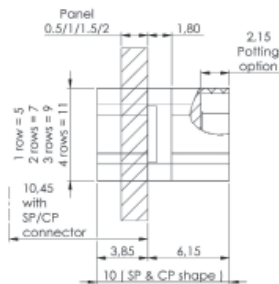


Female

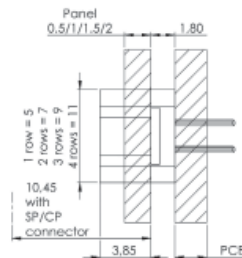


→ REAR PANEL

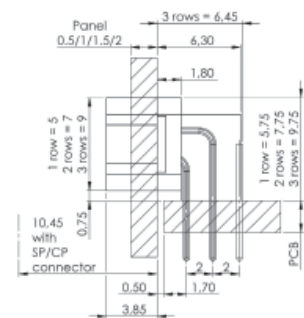
Cable male



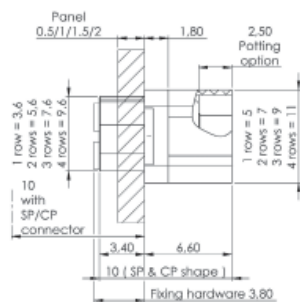
Straight male



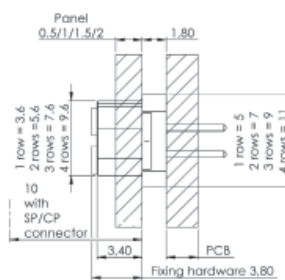
90° male



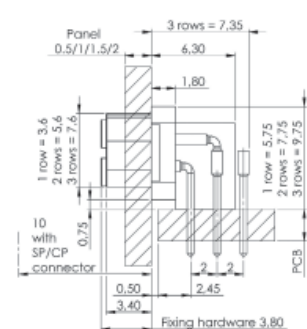
Cable female



Straight female



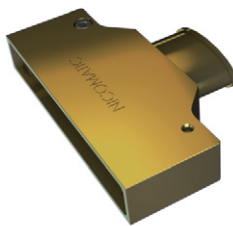
90° female



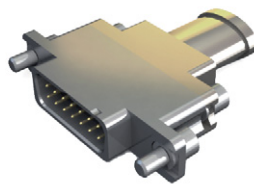
DMM ACCESSORIES & SPECIFIC DEVELOPMENTS

CUSTOM CONNECTORS: MAKE IT EASY FROM DESIGN TO MANUFACTURING

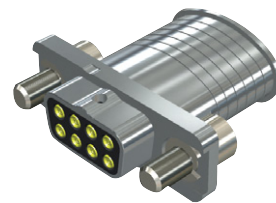
→ EXAMPLES OF DMM BACKSHELLS



Classic Split Backshell



One piece disassembling
Backshell



Built-in Backshell

→ EXAMPLES OF DMM SPECIFIC DEVELOPMENTS



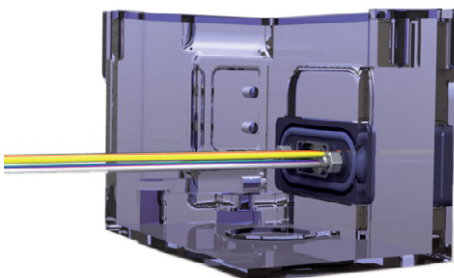
Backshell
for Helicopter application



Backshell
for Helicopter application



Backshell
for multi racking application



O-ring DMM

Date of issue : july 2012
Catalogue reference : C.DMM.2000/GB

NICOMATIC maintains a policy of ongoing development and improvement. It therefore reserves the right to change design, dimensions and specifications without notice. All information stated inside this catalogue is not contractual and subject to change (eg. standard connector configurations).

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