

# DMM Harness

## DMM pre-wired, part numbering

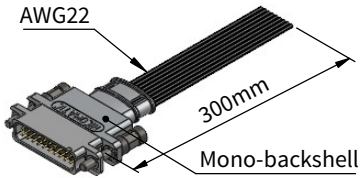
HD	(F/L)	x	x	G	W	(#)	P	n	n	(n)	x	x	x	(x)	-	yy	zz	-	A	#	B	C	L	L	L	L
----	-------	---	---	---	---	-----	---	---	---	-----	---	---	---	-----	---	----	----	---	---	---	---	---	---	---	---	---

HD (F/L) x x	G	W	(#)	P	n n (n)	x x x (x)	-	yy zz -	A	#	B	C	LLLL
DMM Series rows	Gender	Signal wire	Color wires	Shape & Potting	LF Contact number	Fixing		HP/HF Contact number	HP/HF wire	Color	Accessories	Harness Configuration	Harness length
<b>HD10 / HDF10</b> 1 row / with Flange	1 Male	E	No signal (LF) contacts	Z* No Potting Shape	No LF contact: nn = 00 02 to 30 1 Rows (Only LF)	Please refer to "DMM mounted on cable" fixing hardware page 66 of the DMM catalog	-	If not HP/HF : Ø			Z No accessory	F Fly lead	LLLL < 100 Tolerance ± 5
<b>HD22 / HDF22</b> 2 rows / with Flange		H	AWG28	P 2mm Potting Shape				04 to 60 2 Rows	AWG20 L AWG18 M AWG16 N AWG14 O AWG12 P	# See color table	M Mono Backshell		100 ≤ LLLL < 0300 Tolerance ± 5
<b>HD32 / HDF32</b> 3 rows / with Flange		I	AWG26	Q 2mm Potting Shape + Potting	006 to 090 3 Rows			RG174 A RG178 B RG179 D RG316 F	Ø	N Mono Backshell + Metal Braid	0300 ≤ LLLL < 1500 Tolerance ± 10		
<b>HD42 / HDF42</b> 4 rows / with Flange	2 Female	J	# See color table	L* 5mm Potting Shape	008 to 120 4 Rows			-	yy : First zz : Last	S* Split Backshell	1500 ≤ LLLL ≤ 3000 Tolerance ± 50		
<b>HDL22</b> 2 rows Metalised composite		K		AWG22	M* 5mm Potting Shape + Potting				04 to 32 For Metalised Composite	Ø	T* Split Backshell + Metal Braid (Braid = Cable length)	R Back to back reversed	3000 < LLLL Tolerance ± 50

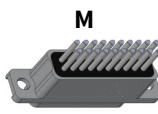
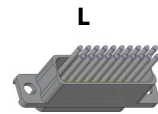
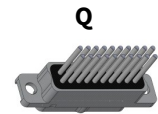
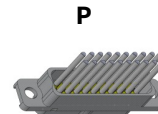
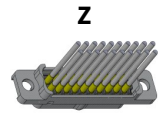
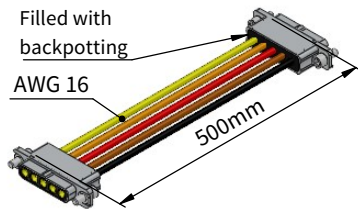
\*These configurations are not available for DLMM serie

Please contact us for these options

Example of codification :  
HD221K0P20DXX-MF0300



Example of codification :  
HD222EM00D53-0500-NRZB0500



#	Color
Ø	No contact
0	Black
1	Brown
2	Red
3	Orange
4	Yellow
5	Green
6	Blue
7	Purple
8	Grey
9	White

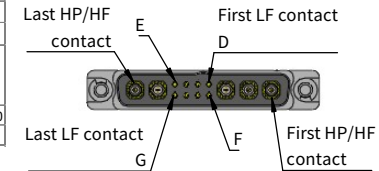
  

Rainbow repeated	
Color order	R
Black	1
Brown	2
Red	3
Orange	4
Yellow	5
Green	6
Blue	7
Purple	8
Grey	9
White	10
Contact number	11 12 13 14 15 16 18 17 19 ...

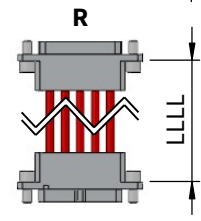
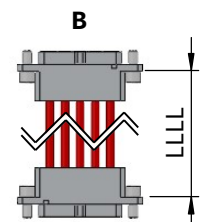
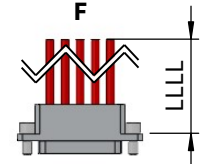
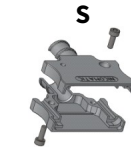
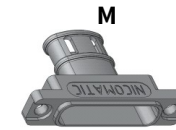
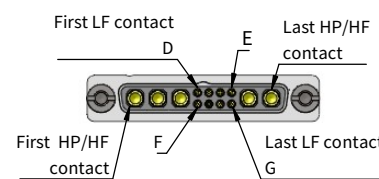
### Backshells : conditions of use

Mono Backshell	Not compatible with potting Not compatible with Z shape Minimum distance between fixings = 18mm
Split Backshell	Not compatible with Flange option

### Male



### Female



See cabling details on page 2



www.nicomatic.com

1	23/02/21	P.B.	J.D.	C.F.
Iss	Date	Drawn	Checked	Approved
Item : D(F/L)MM Harness				

This document is the property of Nicomatic. It may not be reproduced without the prior written permission of the owner. Law of 11 March 1902.

Catalogue Reference : HD(F/L)xxGW(#)Pnn(n)xxx(x)-yyzz-A#BCLLLL

Compliant matrix : -  
Customer reference : -



General tolerance ±0.2

Page 1/2

D

C

B

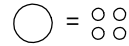
A

## Part number mixed layout

nn(n): LF contacts number

yy: Special contacts number (side LF pin 1)

zz: Special contacts number (opposite side)

One HP / HF  
= four LF

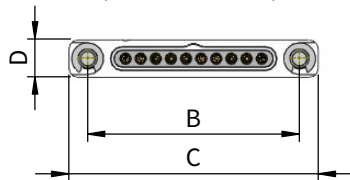
## Length in mm

D(F)MM	Type	B	C	D	
				Only for DMM	Only for DF/LMM
D(F)MM 100	Only LF	$(nn - 1) \times 2 + 10$	B + 5	5	6.2
D(F/L)MM 220	Only LF	$\left(\frac{nn}{2} - 1\right) \times 2 + 10$	B + 5	7	8.2
	Mixed	$\{(yy + zz) \times 4\} + nn + 8$	B + 5		
D(F)MM 320	Only LF	$\left[\frac{nnn \times 2}{3}\right] + 8$	B + 5	9	10.2
	Mixed	$\left[\frac{\{(yy + zz) \times 4 + nnn\} \times 2}{3}\right] + 8$	B + 5		
D(F)MM 420	Only LF	$\left[\frac{nnn}{2}\right] + 8$	B + 5	11	12.2
	Mixed	$\left\{\left(\frac{yy + zz}{2}\right) \times 2\right\} + \left[\frac{nnn}{2}\right] + 8$	B + 5		
	Only HP/HF	$\left(\frac{zz}{2} - 1\right) \times 4 + 12$	B + 5		

For other dimensions, DMM 3D and drawings are available on our website : [www.nicomatic.com](http://www.nicomatic.com)

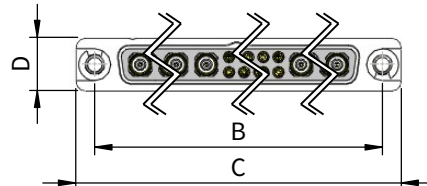
## D(F)MM 100

(Bmax = 68 mm)



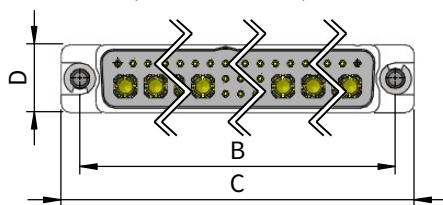
## D(F)MM 220

(Bmax = 68 mm)



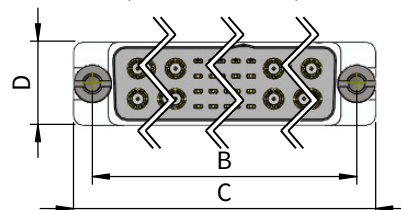
## D(F)MM 320

(Bmax = 68 mm)

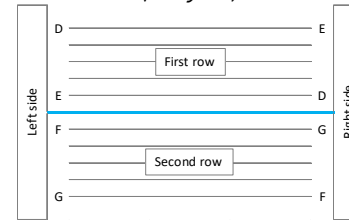
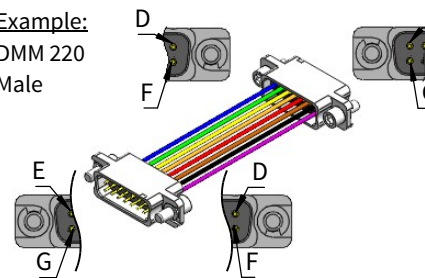


## D(F)MM 420

(Bmax = 68 mm)

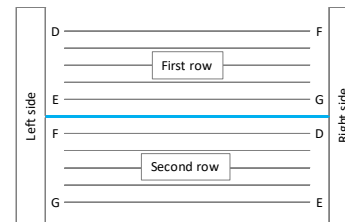
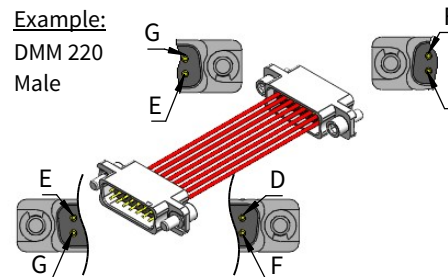


B

Back to back  
(Only LF)Example:  
DMM 220  
Male

R

Back to back reversed

Example:  
DMM 220  
Male

## Technical features for harness components

**Connector :** DMM have been tested according to the MIL-DTL-83513G test routine. Please refer to the Self declaration or DMM drawing to get the performance details.

**Backshell :** Please refer to the Backshell drawings to get the technical features

**Backpotting :** Dielectric grade epoxy encapsulant  
Operating temperature : -40 to 130°C

**Metal braid :** Tin plated copper tubular braid  
Mil-spec : A-A-59569

**Wire :** All the AWG except AWG22 are compliant to MIL22759/11 :

- Conductor : Silver coated copper
- Insulation : Extruded PTFE
- Jacket : none
- Temperature rating : 200°C
- Voltage rating : 600V

AWG22 is compliant to MIL22759/18 :

- Conductor : Tin coated copper
- Insulation : Extruded PTFE
- Jacket : none
- Temperature rating : 150°C
- Voltage rating 600V

**Coaxial cable :** All the RG are compliant to MIL-C-17.



www.nicomatic.com

1	23/02/21	P.B.	J.D.	C.F.
Iss	Date	Drawn	Checked	Approved
Item : D(F/L)MM Harness				

This document is the property of Nicomatic. It may not be reproduced without the prior written permission of the owner. Law of 11 March 1902.

**Catalogue Reference :** HD(F/L)xxGW(##)Pnn(n)xxx(x)-yyzz-A#BCLLLL

**Compliant matrix :** -  
**Customer reference :** -



General tolerance  $\pm 0.2$

Page 2/2

D

A4