

# M SERIES CONNECTORS WITH ANODISED SURFACE TREATMENT



These connectors are designed for use in the motorsport world for easy and quick identification but specific applications can include: on board electronic systems, test equipment, portable and radio systems or automotive wire harness.

The bright anodised colours can be applied to one of the 37 connector models available in 8 different sizes and remain visible after extensive use in harsh environments.

Based on LEMO's M series connector, it remains IP68 compliant and it's rugged

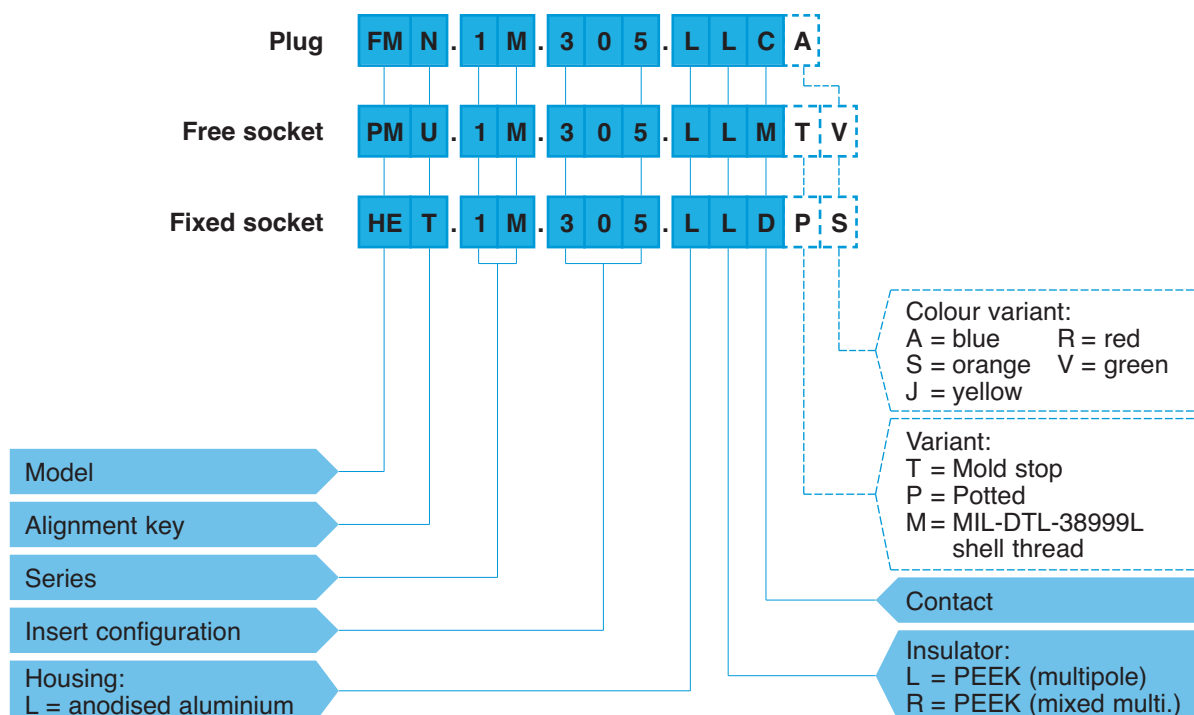
design is conceived for use in high vibration environments. The product includes gasket and sealing options that are oil and fuel resistant. Its compact design is ideal for space saving.

Accepting cable diameters ranging from 2.8 mm to 14 mm, this series is available in multipole from 2 to 114 pins with crimp contacts or PCB contacts as well as hybrid low current/ high current contacts or with fibre optic contacts.

These connectors are designed for use with non-shielded cables.



## Part number system

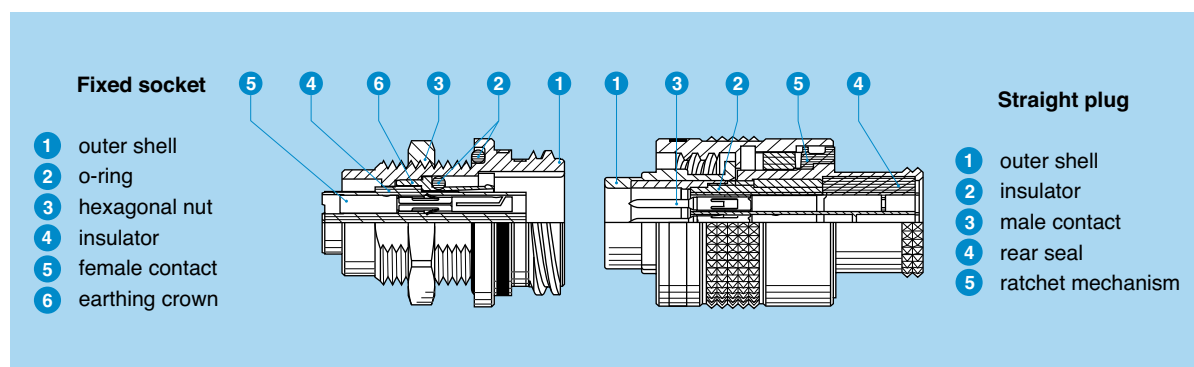


**FMN.1M.305.LLCA** = straight plug with key (N), 1M series, multipole type with 5 contacts, outer shell in blue anodised aluminium alloy, PEEK insulator, male crimp contact.

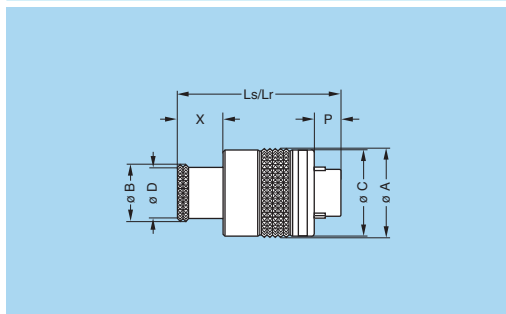
**PMU.1M.305.LLMTV** = free socket with key (U), 1M series, multipole type with 5 contacts, outer shell in green anodised aluminium alloy, PEEK insulator, female crimp contact and mold stop.

**HET.1M.305.LLDPS** = fixed socket with key (T), 1M series, multipole type with 5 contacts, outer shell in orange anodised aluminium alloy, PEEK insulator, male print contact, watertight.

## Part Section Showing Internal Components



## Models

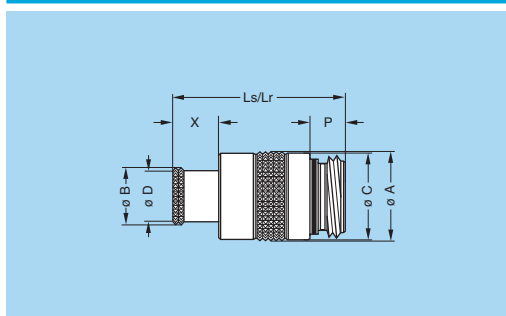


### FM● Straight plug, key (N) or keys (P, R, S, T, U, V, W and X) with knurled grip

Reference		Dimensions (mm)							
Model	Series	A	B	C	D	Ls	Lr	P	X
FM●	MM	11.1	6.4	10.7	5.6	21.3	21.3	5.5	5.8
FM●	0M	13.1	8.8	12.7	8.0	24.1	24.1	3.9	6.7
FM●	1M	14.6	10.5	14.2	9.7	24.1	24.1	3.9	6.7
FM●	2M	17.6	14.0	17.2	13.0	24.5	24.5	3.9	7.1
FM●	3M	19.6	16.0	19.2	15.0	24.5	24.5	3.9	7.1
FM●	TM	22.5	17.9	22.0	16.7	28.6	28.6	3.4	7.6
FM●	4M	25.0	20.7	24.5	19.5	28.6	28.6	3.4	7.6
FM●	LM	28.5	23.9	28.0	22.7	28.6	28.6	3.4	7.6
FM●	5M	34.0	29.7	33.5	28.5	28.6	28.6	3.4	7.6

Part number example: FMN.1M.305.LLCA

Note: Ls = standard gender, Lr = reverse gender



### PM● Free socket, key (N) or keys (P, R, S, T, U, V, W and X) with knurled grip

Reference		Dimensions (mm)							
Model	Series	A	B	C	D	Ls	Lr	P	X
PM●	MM	11.1	6.4	10.7	5.6	21.4	21.4	3.7	5.8
PM●	0M	13.1	8.8	12.7	8.0	25.6	25.6	5.3	6.7
PM●	1M	14.6	10.5	14.2	9.7	25.6	25.6	5.3	6.7
PM●	2M	17.6	14.0	17.2	13.0	26.0	26.0	5.3	7.1
PM●	3M	19.6	16.0	19.2	15.0	26.0	26.0	5.3	7.1
PM●	TM	22.5	17.9	22.0	16.7	28.2	30.1	7.9	7.6
PM●	4M	25.0	20.7	24.5	19.5	28.2	30.1	7.9	7.6
PM●	LM	28.5	23.9	28.0	22.7	28.2	30.1	7.9	7.6
PM●	5M	34.0	29.7	33.5	28.5	28.2	30.1	7.9	7.6

Part number example: PMN.1M.305.LLMA

Note: Ls = standard gender, Lr = reverse gender

## Alignment Key and Colour variant

MM to 3M	Front view of a socket	Alignment key	Colour code	Colour variant	Contact type		Nb of keys
					Plug	Socket	
		●●N	blue	A	male	female	3
		●●P	yellow	J			
		●●U	green	V	female	male	3
		●●S	red	R			
		●●T	orange	S			

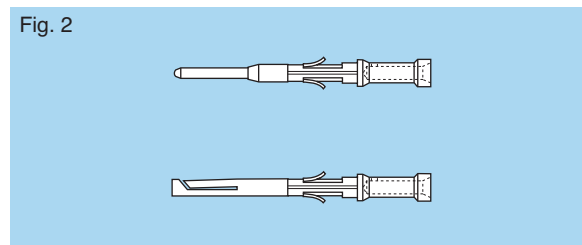
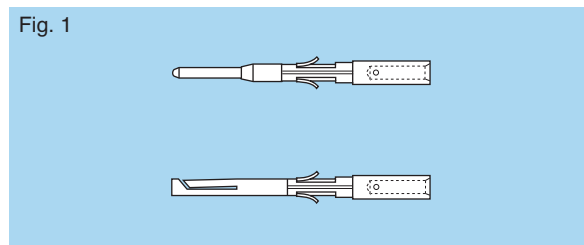
TM to 5M	Front view of a socket	Alignment key	Colour code	Colour variant	Contact type		Nb of keys
					Plug	Socket	
		●●W	blue	A	male	female	5
		●●R	yellow	J			
		●●X	red	R	female	male	5
		●●V	orange	S			

## Contacts

Reference	Contact type
<b>C</b>	Male crimp with standard crimp barrel (fig. 1)
<b>B</b>	Male crimp with reduced crimp barrel (fig. 2)
<b>D</b>	Male straight print

Reference	Contact type
<b>M</b>	Female crimp with standard crimp barrel (fig. 1)
<b>P</b>	Female crimp with reduced crimp barrel (fig. 2)
<b>N</b>	Female straight print

## Crimp contacts for plugs, free or fixed sockets



See M series connectors ratchet coupling catalog for insert configuration and electrical details.

[http://www.lemo.com/catalog/ROW/UK\\_English/M\\_series.pdf](http://www.lemo.com/catalog/ROW/UK_English/M_series.pdf)

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