

PRODUCT UPDATE WHITE PAPER

Modular L series and LR Series

Updated Rev B – 09th April'25

Dear Customers and Partners,

This bulletin provides an overview of the updates to the modular L and LR series.

The L Series and LR series are modular configurable connectors that allow users to combine a variety of modules (mixed signal, power, coaxial, data, fiber optic and pneumatic) within a single frame. The frames range from a basic frame with just two side rails and two end caps for floating mount, to more complex versions for front mating or blind (backplane) mating panel mount with guides, jackscrews, back shells, cable clamps, etc.

Both the L series and LR series have a long and rich pedigree built over 50 years! To allow our customers and partners continue to avail the best of both the product series, we are merging them into one product – the L series.

Please refer to the appendixes to find the details of this update.

- Appendix A: Changes to frames, standard frame length and material
- Appendix B: Changes to modules
- Appendix C: Change of material for side rail

If you have any questions or require any clarification, please do not hesitate to contact our local Sales representatives.



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Appendix A - Changes to frames, standard frame length and material

Table 1, outlines the changes to the frames

US L Series	EMEA LR Series	GLOBAL L Series	Comment
FRAME A	FRAME A	FRAME A	NO CHANGE
FRAME B	FRAME B	FRAME B	NO CHANGE
FRAME BV	FRAME BV type 2	FRAME BVL	CODE CHANGED - FROM BV/BV type 2 TO BVL - 3 rd digit L or S denotes Long or Short respectively
-	FRAME BV type 0	FRAME BVS	CODE CHANGED - FROM BV/BV type 0 TO BVS - the type of jackscrew (S=short)
FRAME H	FRAME H	FRAME H	NO CHANGE
FRAME J	FRAME J	-	Removed and NRND (Not recommended for new design)
FRAME JV	FRAME JV	-	Removed and NRND (Not recommended for new design)
FRAME MV 4 plastic hood lengths	FRAME V1 9 plastic hood lengths	FRAME MV* 7 plastic hood lengths	CODE CHANGED - * identifies type of plastic hood like MVL1A: Long Jackscrew with 1 angled exit. - 3 rd digit L or S denotes Long or Short respectively - 4 th digit 1 or 2 denotes number of exists - 5 th digit A or S denotes angled or straight exist
-	FRAME V0	-	Removed and NRND (Not recommended for new design)
FRAME MY 4 plastic hood lengths	-	FRAME MY* 6 plastic hood lengths	CODE CHANGED - * identifies type of plastic hood like MY1A: quick turn with 1 angled exit - 3 rd digit 1 or 2 denotes number of exists - 4 th digit A or S denotes angled or straight exist
-	FRAME K	-	Removed and NRND (Not recommended for new design)
-	FRAME JS	-	Removed and NRND (Not recommended for new design)
-	FRAME KV	-	Removed and NRND (Not recommended for new design)

Table 1 - Changes to frames

Further to the above changes, there a few other changes to take note of:

1. Frame length will increase from 4 up to 20 units to 4 up to 30 units
2. The material for the rails used in US L series will change from Aluminum 5052 Temper H-32 per MIL QQ-A-318; finish/Plate: Anodization – code Z as per MIL-A-8625 Class 2 Type II Gold colour, to, Stainless Steel USN Code S30400; finish/Plate: Passivation - code Z11 as per ASTM-A-967, Nitric 2 (QQ-P-35 Type VI) or AMS 2700 Method 1 Type 6. For more details please also refer to the product change notification (PCN)

Appendix B - Changes to modules

In the new Global L series catalogue, some modules e.g. A & RA - they have same form, fit and function, the modules starting with prefix 'R' (except S & RS) are compliant to EN45545 fire and smoke standard.

US L SERIES	EMEA LR SERIES	GLOBAL L SERIES	Comment
A	A	A (Refer Table 3)	NO CHANGE
-	RA	RA	NO CHANGE
B	B	B (Refer Table 3)	NO CHANGE
-	RB	RB	NO CHANGE
C	C	C (Refer Table 3)	NO CHANGE
-	RC	RC	NO CHANGE
D	D	D (Refer Table 3)	NO CHANGE
-	RD	RD	NO CHANGE
-	G	E	CODE CHANGED - FROM G TO E
-	RG	RE	CODE CHANGED - FROM RG TO RE
F	F	F	NO CHANGE
G	-	G	NO CHANGE
-	K	H	CODE CHANGED - FROM K TO H
-	RK	RH	CODE CHANGED - FROM RK TO RH
K	-	K	NO CHANGE
M	M	M	NO CHANGE
-	RM	RM	NO CHANGE
-	N	N	NO CHANGE
PN	PN	PN	NO CHANGE
-	Q	Q	NO CHANGE
-	RQ	RQ	NO CHANGE
R	X	R (Refer Note 1)	NO CHANGE for US customers
-	RX	RR	CODE CHANGED - FROM RX TO RR
-	RX1	RR1	CODE CHANGED - FROM X1 TO RR1
S	-	S (Refer Note 1)	NO CHANGE
-	RW	RS	CODE CHANGED - FROM RW TO RS
-	T	T	NO CHANGE
-	RT	RT	NO CHANGE
U	-	U (Refer Note 1)	NO CHANGE
-	RZR/RZL	RU	CODE CHANGED - FROM RZR/RZL TO RU
V Coax	-	V Coax	NO CHANGE
V Power	-	V Power	NO CHANGE
W	LW	W	NO CHANGE
-	ZA/ZB	Z1	CODE CHANGED - FROM ZA/ZB TO Z1
-	RZA/RZB	RZ1	CODE CHANGED - FROM RZA/RZB TO RZ1
-	-	Cat 5e	NEW CODE
-	-	Cat 6A	NEW CODE

US L SERIES	EMEA LR SERIES	GLOBAL L SERIES	Comment
-	O	-	OBSOLETE
-	RO	-	OBSOLETE
-	I	-	OBSOLETE
-	RI	-	OBSOLETE
-	E	-	OBSOLETE
-	H	-	OBSOLETE
-	L	-	OBSOLETE
-	J	-	OBSOLETE
-	Y	-	OBSOLETE
-	RY	-	OBSOLETE

Table 2 - Changes to modules

Note 1 - ordering part number has changed - there is "T" in the individual module part number regardless of male contact plating and there is no "TAH" in the individual module part numbers.

Category	Reference	New part number	Old part number		
			Italy	France	UK
Insulators	Module A	ZLM005-001	12446 INSULATOR AH NMK	046593-00KL	HMC-102
	Module B	ZLM003-001	12447 INSULATOR BH NMK	047989-00KL	HMC-101
	Module C	ZLM002-001	12448 INSULATOR CH NMK	047967-00KL	HMC-100
	Module D	ZLM017-001	12831 INSULATOR DHM NKM	NA	HMC-168
	Module D	ZLM017-002	12832 INSULATOR DHF NMK	NA	HMC-176
Modules	Module A	LAMSTH.....	MODULAR ELEMENT AM H	NA	HMC-1-7
	Module A	LAFSTAH.....	MODULAR ELEMENT AF H	NA	HMC-2-9
	Module B	LBMSTH.....	MODULAR ELEMENT BM H	NA	HMC-3-7
	Module B	LBFSTAH.....	MODULAR ELEMENT BF H	NA	HMC-4-9
	Module C	LCMSTH.....	MODULAR ELEMENT CM H	NA	HMC-5-7
	Module C	LCFSTAH.....	MODULAR ELEMENT CF H	NA	HMC-6-9
	Module D	LDMSTH.....	MODULAR ELEMENT DM H	NA	HMC-170-7
	Module D	LDFSTAH.....	MODULAR ELEMENT DF H	NA	HMC-173-9

Table 3 - Mapping of old to new part numbers

Appendix C – Change of material for side rail

As communicated through PCN2025.05 - Change of material L series side rails I Rev B - Please be advised that the material for the side rails will change, the details of the material are:

- **From:** Aluminum 5052 Temper H-32 per MIL QQ-A-318; finish/Plate: Anodization – code Z as per MIL-A-8625 Class 2 Type II Gold Color
- **To:** Stainless Steel USN Code S30400; the rail has a third hole for all lengths, this is required for manufacturing the part.

In longer lengths of units, the product currently uses Stainless Steel USN Code S30400. This change will not impact on the form, fit and function of the product.

The change will be implemented with immediate effect; however, customers will see for coming months deliveries from Smiths Interconnect’s factories with a mixture of connectors with Aluminum 5052 Temper H-32 per MIL QQ-A-318 and Stainless Steel USN Code S30400 side rails.

Finally, in the PCN communicated in July 2025, there was an error where we stated - finish/Plate: Passivation - code Z11 as per ASTM-A-967, Nitric 2 (QQ-P-35 Type VI) or AMS 2700 Method 1 Type 6; the side rail using Stainless Steel USN Code S30400 doesn’t have any additional finish/plate.

Table of revision

Date	Revision no	Revision details
07 th May 2025	A	First issue
09 th April 2026	B	Second issue. Following changes are made: <ul style="list-style-type: none"> - Added Note 1 after Table 2 - Added Table 3 - Added Appendix C