

Redesign – Lock & release lever of female plugs with pitch 3.81 mm

Initial Situation

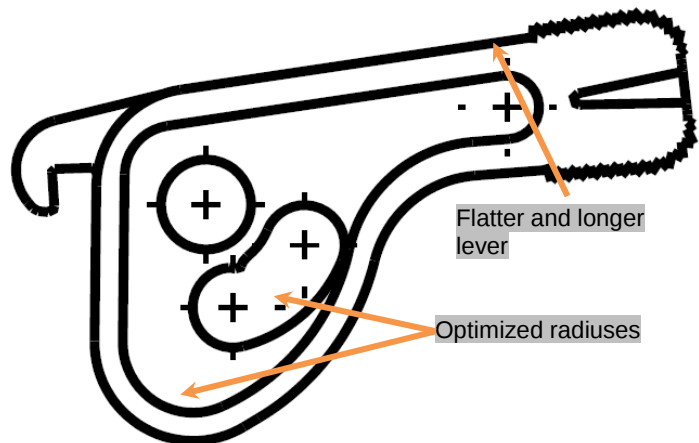
A reliable locking system is one of the main prerequisites for safe operation of equipment. Increasingly compact formats and greater connection density complicates the handling of plug-in connectors on the front panel. An increasing number of poles also require greater force when detaching the plug. With these challenges in mind, we have revised the design of the lock & release levers of our connector system OMNIMATE Signal pitch 3.81 mm.

Technical Change

Compared with the previous the new lock & release lever is designed much flatter. Due to this compact design more connectors can be placed side by side on the front panel.

Other benefits of optimized lock & release lever:

- The lock & release lever latches automatically during insertion (called auto-lock-function). Subsequent locking after plugging is not necessary.
- Higher leverage makes the disconnection of plug easier.
- Improved handling in confined spaces by a longer lever.
- When the lever is actuated, the female connector is released more gently from the component assembly. This is important in case of extreme ambient temperatures.
- When the lock & release lever is locked, the reinforced latching-hook increases the maximum pull-out force and avoids an inadvertent disconnection of the plug.



Pic.1: Lock & Release lever in detail

Important information

- We created new part numbers which are already mounted with the new lever (from 01/07/2017)
- Parts with previous lock & release lever will be obsolete at the end of 2017
- A negative impact on the delivery performance due to this change is not expected
- All counterparts can still be used with old and new lock and release lever

Effected products

- BCF 3.81/./180LR..
- BCF 3.81/./180LRZE..
- SCZ 3.81/./180LR..
- SCZ 3.81/./180LRZE..
- BCZ 3.81/./180LR..
- BCZ 3.81/./180LRZE..

part number	description	new part number	description
1236790000	BCZ 3.81/05/180LRZE SN OR BX	2442030000	BCZ 3.81/05/180LRZE SN OR BX
1236910000	BCZ 3.81/16/180LRZE SN OR BX	2442160000	BCZ 3.81/16/180LRZE SN OR BX
1236930000	BCZ 3.81/18/180LRZE SN OR BX	2442170000	BCZ 3.81/18/180LRZE SN OR BX
1236970000	BCZ 3.81/20/180LRZE SN OR BX	2442180000	BCZ 3.81/20/180LRZE SN OR BX
1236880000	BCZ 3.81/13/180LRZE SN OR BX	2442190000	BCZ 3.81/13/180LRZE SN OR BX
1236900000	BCZ 3.81/15/180LRZE SN OR BX	2442200000	BCZ 3.81/15/180LRZE SN OR BX
1236810000	BCZ 3.81/07/180LRZE SN OR BX	2442210000	BCZ 3.81/07/180LRZE SN OR BX
1236850000	BCZ 3.81/11/180LRZE SN OR BX	2442220000	BCZ 3.81/11/180LRZE SN OR BX
1236940000	BCZ 3.81/19/180LRZE SN OR BX	2442230000	BCZ 3.81/19/180LRZE SN OR BX
1236840000	BCZ 3.81/10/180LRZE SN OR BX	2442240000	BCZ 3.81/10/180LRZE SN OR BX
1236920000	BCZ 3.81/17/180LRZE SN OR BX	2442250000	BCZ 3.81/17/180LRZE SN OR BX
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Kind Regards



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Weidmueller – Your partner in Industrial Connectivity
We look forward to sharing ideas with you – **Let's connect.**

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