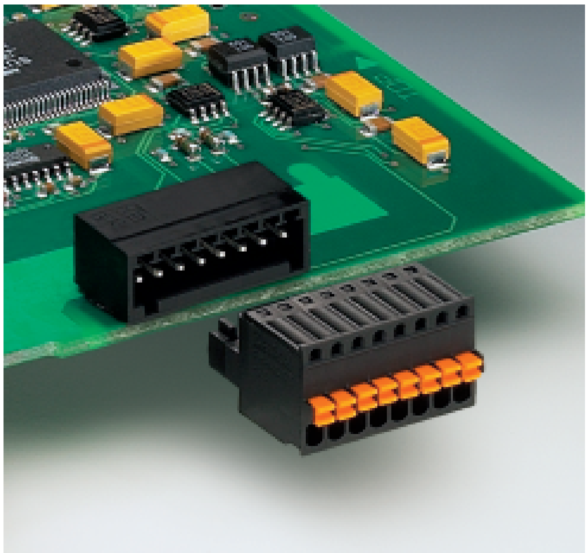
MICRO COMBICON Headers for Through Hole Reflow Applications MC(V) 0,5/…G-2,5 THT 2.5 mm Pitch

The consistent use of Through Hole Reflow plug connectors has also made it necessary to extend the COMBICON THR range to include the miniature pitch of 2.5 mm. The new THR MICRO COMBICON headers are of high-temperature resistant plastic and are ideally suited for the SMT reflow processes commonly encountered in industrial environments.

The possibility of being able to process the THR header together with SMD components in just one step using the PIN IN PASTE process, extends the scope of performance of the compact and space-saving MICRO plug connector. The familiar standard component family is now available with 2-12 positions as both vertical and horizontal version, as THR component.

The MC(V) 0,5-THT pin strips are equipped with 3.5 mm standard solder pins, and versions with short solder pins are also available on request. In combination with the through contacted drilled holes, the THR pin strips achieve the same high degree of mechanical stability as the headers soldered using the wave soldering process. The articles are available in loosely packaged form, but can also be supplied on request in a 44 mm wide tape.



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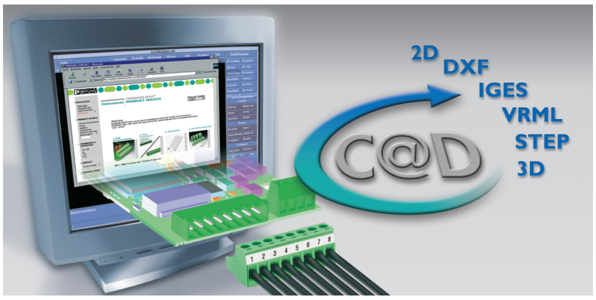

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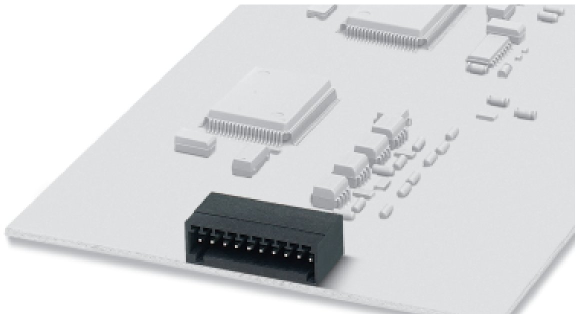
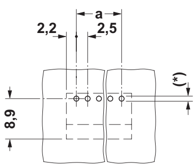
MC 0,5/…-G-2,5 THT
2.5 mm Pitch

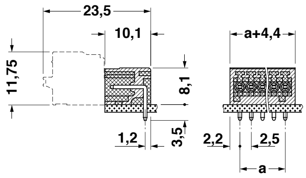


Note:
COMBICON plug connectors may only be actuated in the no-load condition. If smaller loads need to be switched for operational reasons, experimental values are available on request.

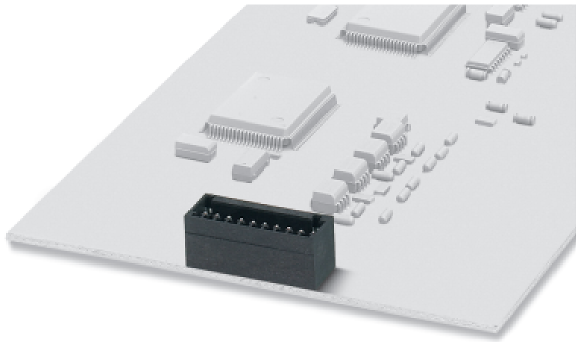
Description	No. of pos.	Dim. a [mm]	Type	Order No.	Pcs./Pkt.
Headers, plug-in direction parallel to the conductor axis, 2.5 mm pitch, color: black,	2	2.5	**MC 0,5/2-G-2,5 THT**	**19 63 42 1**	50
	3	5	**MC 0,5/3-G-2,5 THT**	**19 63 43 4**	
	4	7.5	**MC 0,5/4-G-2,5 THT**	**19 63 44 7**	
	5	10	**MC 0,5/5-G-2,5 THT**	**19 63 45 0**	
	6	12.5	**MC 0,5/6-G-2,5 THT**	**19 63 46 3**	
	7	15	**MC 0,5/7-G-2,5 THT**	**19 63 47 6**	
	8	17.5	**MC 0,5/8-G-2,5 THT**	**19 39 30 3**	
	9	20	**MC 0,5/9-G-2,5 THT**	**19 63 49 2**	
	10	22.5	**MC 0,5/10-G-2,5 THT**	**19 63 50 2**	
	11	25	**MC 0,5/11-G-2,5 THT**	**19 63 51 5**	
	12	27.5	**MC 0,5/12-G-2,5 THT**	**19 39 31 6**	
(1) **Coding profile,** is inserted into the groove on the header **after** reflow-soldering, made of red plastic			**CP-MC 0,5**	**18 81 43 5**	100

Technical data				
Dimensions		see description		
Pitch	[mm]	2.5		
Hole diameter	[mm]	*) ≤ 8-pos. = 1.2 / > 8-pos. = 1.3		
Pin dimensions	[mm]	0.8 x 0.8		
Technical data in accordance with IEC/ DIN VDE				
Insulating material group	–		IIIa	
Surge voltage category / contamination class	–/–	III / 3	III / 2	II / 2
Rated voltage	[V]	32	160	160
Rated surge voltage	[kV]	1.5	2.5	2.5
Nominal current / cross section	[A]/[mm²]		4 / –	
Maximum load current / cross section	[A]/[mm²]		4 / –	
Insulating material			PA	
Inflammability class in acc. with UL 94			V0	
Approval data (UL/CUL and CSA)				
Nominal voltage / current / conductor sizes	UL/CUL: [V]/[AI/AWG]		applied for	
	CSA: [V]/[AI/AWG]		–	





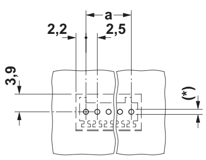
MCV 0,5/…-G-2,5 THT
2.5 mm Pitch

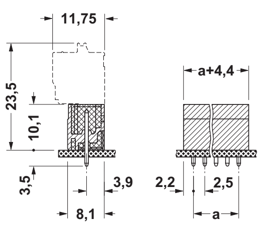


Note:
COMBICON plug connectors may only be actuated in the no-load condition. If smaller loads need to be switched for operational reasons, experimental values are available on request.

Description	No. of pos.	Dim. a [mm]	Type	Order No.	Pcs./Pkt.
Headers, plug-in direction vertical to the conductor axis, 2.5 mm pitch, color: black,	2	2.5	**MCV 0,5/2-G-2,5 THT**	**19 63 53 1**	50
	3	5	**MCV 0,5/3-G-2,5 THT**	**19 63 54 4**	
	4	7.5	**MCV 0,5/4-G-2,5 THT**	**19 63 55 7**	
	5	10	**MCV 0,5/5-G-2,5 THT**	**19 63 56 0**	
	6	12.5	**MCV 0,5/6-G-2,5 THT**	**19 63 57 3**	
	7	15	**MCV 0,5/7-G-2,5 THT**	**19 63 58 6**	
	8	17.5	**MCV 0,5/8-G-2,5 THT**	**19 63 59 9**	
	9	20	**MCV 0,5/9-G-2,5 THT**	**19 63 60 9**	
	10	22.5	**MCV 0,5/10-G-2,5 THT**	**19 63 61 2**	
	11	25	**MCV 0,5/11-G-2,5 THT**	**19 63 62 5**	
	12	27.5	**MCV 0,5/12-G-2,5 THT**	**19 63 63 8**	
(1) **Coding profile,** is inserted into the groove on the header **after** reflow-soldering, made of red plastic			**CP-MC 0,5**	**18 81 43 5**	100

Technical data				
Dimensions		see description		
Pitch	[mm]	2.5		
Hole diameter	[mm]	*) ≤ 8-pos. = 1.2 / > 8-pos. = 1.3		
Pin dimensions	[mm]	0.8 x 0.8		
Technical data in accordance with IEC/ DIN VDE				
Insulating material group	–		IIIa	
Surge voltage category / contamination class	–/–	III / 3	III / 2	II / 2
Rated voltage	[V]	32	160	160
Rated surge voltage	[kV]	1.5	2.5	2.5
Nominal current / cross section	[A]/[mm²]		4 / –	
Maximum load current / cross section	[A]/[mm²]		4 / –	
Insulating material			PA	
Inflammability class in acc. with UL 94			V0	
Approval data (UL/CUL and CSA)				
Nominal voltage / current / conductor sizes	UL/CUL: [V]/[AI/AWG]		applied for	
	CSA: [V]/[AI/AWG]		–	





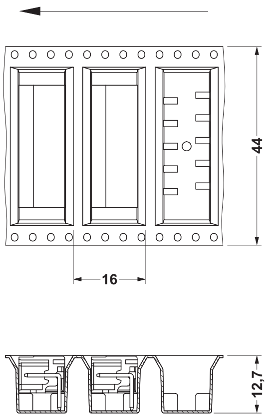
MC 0,5/…-G-2,5 THT R44
2.5 mm Pitch

Note:
COMBICON plug connectors may only be actuated in the no-load condition. If smaller loads need to be switched for operational reasons, experimental values are available on request.

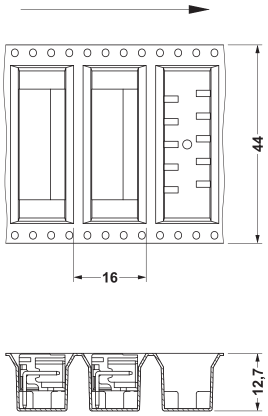
Description	No. of pos.	Dim. a [mm]	**Type**	**Order No.**	Pcs./Pkt.
Headers packed in tapes, plug-in direction horizontal to the conductor axis, 2.5 mm pitch, color: black,	2	2.5	**MC 0,5/2-G-2,5 THT R44**	**19 63 64 1**	330
	3	5	**MC 0,5/3-G-2,5 THT R44**	**19 63 65 4**	
	4	7.5	**MC 0,5/4-G-2,5 THT R44**	**19 63 66 7**	
	5	10	**MC 0,5/5-G-2,5 THT R44**	**19 63 67 0**	
	6	12.5	**MC 0,5/6-G-2,5 THT R44**	**19 63 68 3**	
	7	15	**MC 0,5/7-G-2,5 THT R44**	**19 63 69 6**	
	8	17.5	**MC 0,5/8-G-2,5 THT R44**	**19 63 70 6**	
	9	20	**MC 0,5/9-G-2,5 THT R44**	**19 63 71 9**	
	10	22.5	**MC 0,5/10-G-2,5 THT R44**	**19 63 72 2**	
	11	25	**MC 0,5/11-G-2,5 THT R44**	**19 63 73 5**	
	12	27.5	**MC 0,5/12-G-2,5 THT R44**	**19 63 74 8**	
(1) **Coding profile,** is inserted into the groove on the header **after** reflow-soldering, made of red plastic			**CP-MC 0,5**	**18 81 43 5**	100

Technical data				
Dimensions			see description	
Pitch	[mm]		2.5	
Hole diameter	[mm]		≤ 8-pos. = 1.2 / > 8-pos. = 1.3	
Pin dimensions	[mm]		0.8 x 0.8	
Technical data in accordance with IEC/ DIN VDE				
Insulating material group	–		IIIa	
Surge voltage category / contamination class	–/–	III / 3	III / 2	II / 2
Rated voltage	[V]	32	160	160
Rated surge voltage	[kV]	1.5	2.5	2.5
Nominal current / cross section	[A]/[mm²]		4 / –	
Maximum load current / cross section	[A]/[mm²]		4 / –	
Insulating material			PA	
Inflammability class in acc. with UL 94			V0	
Approval data (UL/CUL and CSA)				
Nominal voltage / current / conductor sizes	UL/CUL: [V]/[A]/AWG		applied for	
	CSA: [V]/[A]/AWG		–	

MC 0,5/…-G-2,5 THT R44,
Tape width 44 mm, even nos. of positions,
feeder direction



MC 0,5/…-G-2,5 THT R44,
Tape width 44 mm, odd nos. of positions,
feeder direction



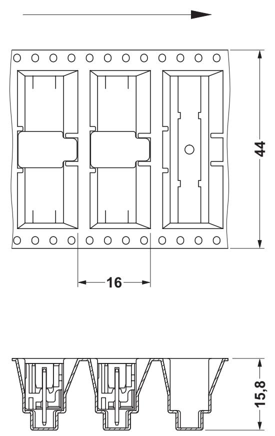
MCV 0,5/…-G-2,5 THT R44
2.5 mm Pitch

Note:
COMBICON plug connectors may only be actuated in the no-load condition. If smaller loads need to be switched for operational reasons, experimental values are available on request.

Description	No. of pos.	Dim. a [mm]	Type	Order No.	Pcs./Pkt.
Headers packed in tapes, plug-in direction vertical to the conductor axis, 2.5 mm pitch, color: black,	2	2.5	**MCV 0,5/2-G-2,5 THT R44**	**19 63 75 1**	330
	3	5	**MCV 0,5/3-G-2,5 THT R44**	**19 63 76 4**	
	4	7.5	**MCV 0,5/4-G-2,5 THT R44**	**19 63 77 7**	
	5	10	**MCV 0,5/5-G-2,5 THT R44**	**19 63 78 0**	
	6	12.5	**MCV 0,5/6-G-2,5 THT R44**	**19 63 79 3**	
	7	15	**MCV 0,5/7-G-2,5 THT R44**	**19 63 80 3**	
	8	17.5	**MCV 0,5/8-G-2,5 THT R44**	**19 63 81 6**	
	9	20	**MCV 0,5/9-G-2,5 THT R44**	**19 63 82 9**	
	10	22.5	**MCV 0,5/10-G-2,5 THT R44**	**19 63 84 5**	
	11	25	**MCV 0,5/11-G-2,5 THT R44**	**19 63 85 8**	
	12	27.5	**MCV 0,5/12-G-2,5 THT R44**	**19 63 86 1**	
(1) **Coding profile,** is inserted into the groove on the header **after** reflow-soldering, made of red plastic			**CP-MC 0,5**	**18 81 43 5**	100

Technical data				
Dimensions		see description		
Pitch	[mm]	2.5		
Hole diameter	[mm]	≤ 8-pos. = 1.2 / > 8-pos. = 1.3		
Pin dimensions	[mm]	0.8 x 0.8		
Technical data in accordance with IEC/ DIN VDE				
Insulating material group	–	IIIa		
Surge voltage category / contamination class	–/–	III / 3	III / 2	II / 2
Rated voltage	[V]	32	160	160
Rated surge voltage	[kV]	1.5	2.5	2.5
Nominal current / cross section	[A]/[mm²]	4 / –		
Maximum load current / cross section	[A]/[mm²]	4 / –		
Insulating material		PA		
Inflammability class in acc. with UL 94		V0		
Approval data (UL/CUL and CSA)				
Nominal voltage / current / conductor sizes	UL/CUL: [V]/[AI/AWG	applied for		
	CSA: [V]/[AI/AWG	–		

MCV 0,5/…-G-2,5 THT R44,
Tape width 44 mm, even and odd nos. of positions, feeder direction



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