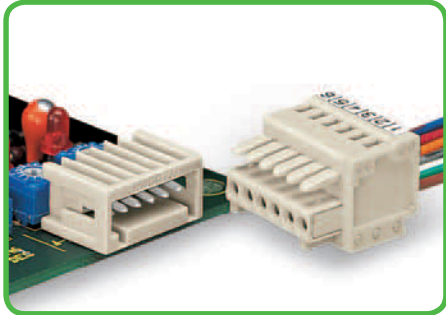


# Description and Handling

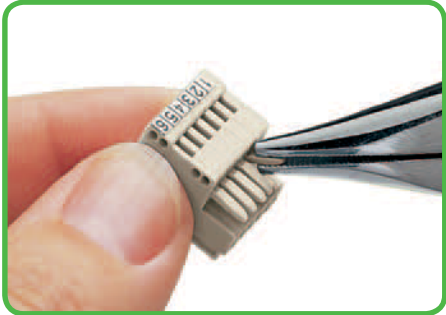
## MCS - MULTI CONNECTION SYSTEM MICRO



Male header and female connector - 100% protected against mismatching. Only mating halves with the same pole number can be connected together.

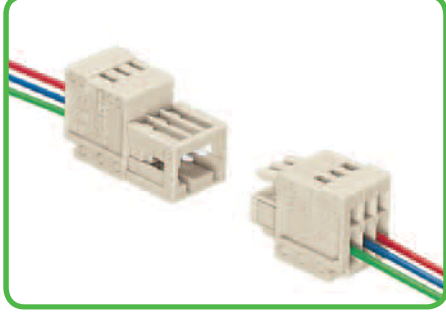


Coding a male header - fitting coding key(s).

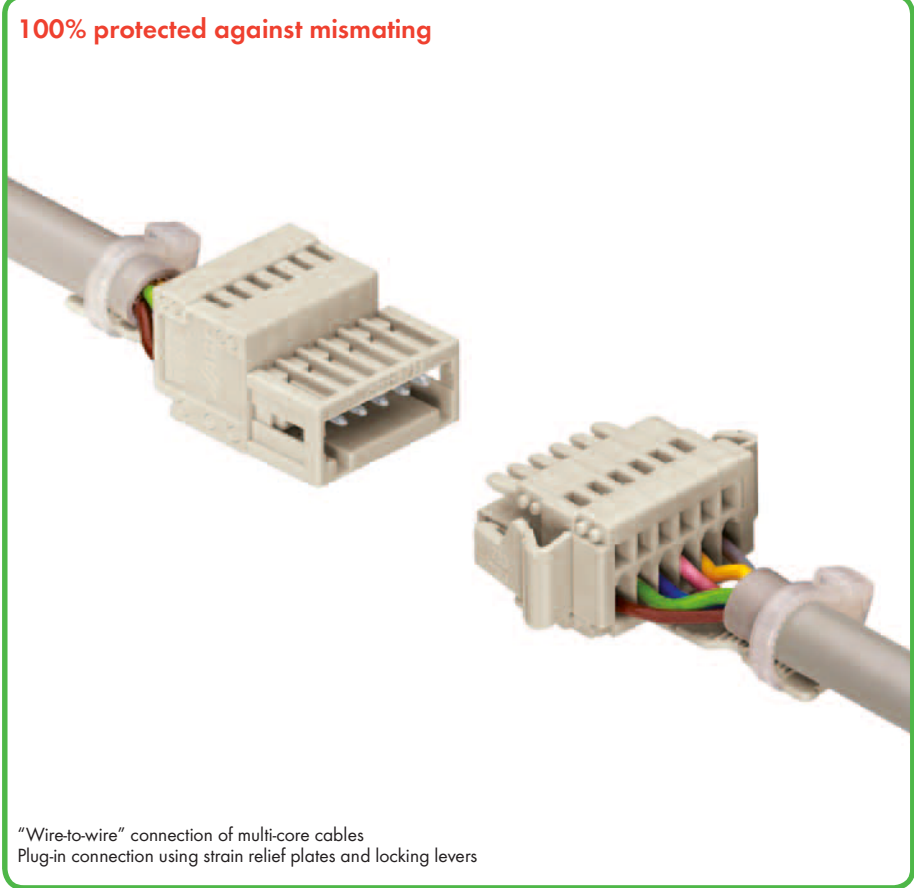


Coding a female connector - removing coding finger(s).

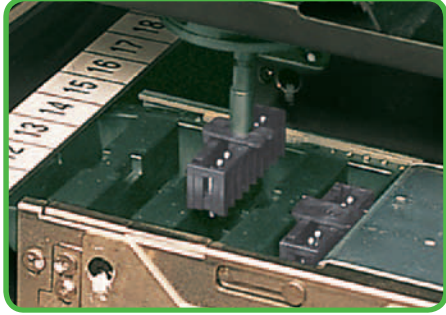
### 733 Series



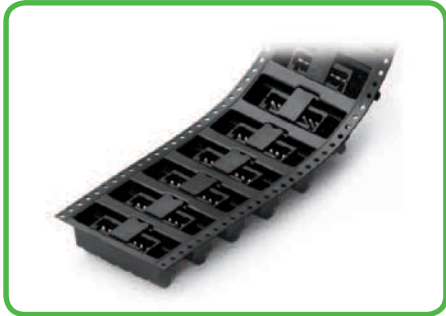
"Wire-to-wire" connection of single conductors.



"Wire-to-wire" connection of multi-core cables  
Plug-in connection using strain relief plates and locking levers



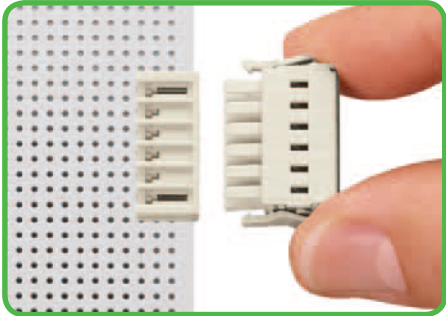
THR male headers for reflow soldering in SMT production.



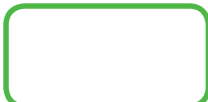
Tape-and-reel packaging for THR male headers.



Locking levers prevent accidental disconnection.



fine-stranded, also with tinned single strands



**CAGE CLAMP®** clamps the following copper conductors:\*

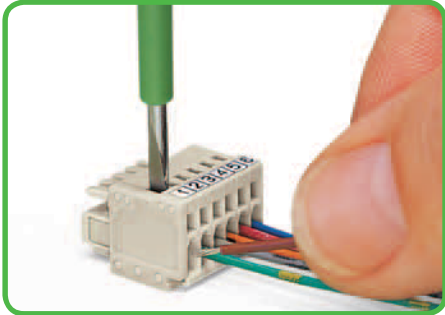
solid



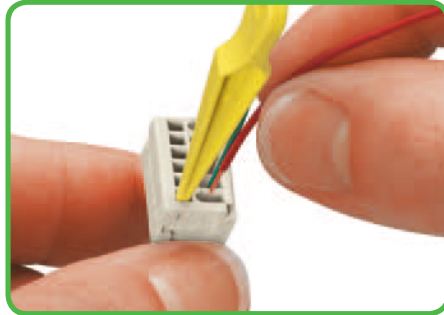
stranded



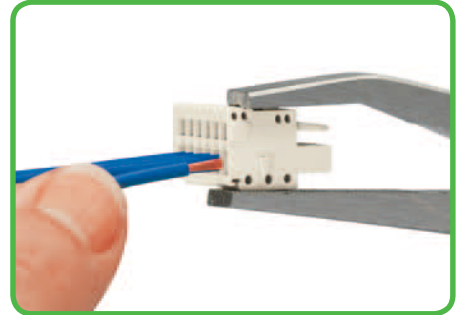
\* For aluminum conductors, see notes in Section 11.



Inserting conductor via (2.5 x 0.4) mm screwdriver. Actuation perpendicular to conductor termination.



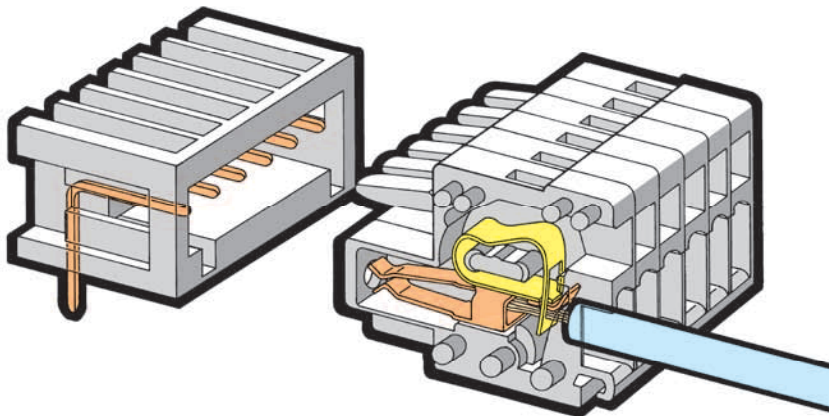
Inserting conductor via 233-331 operating tool. Operation parallel to conductor termination.



Inserting conductor via 210-251 operating tool.

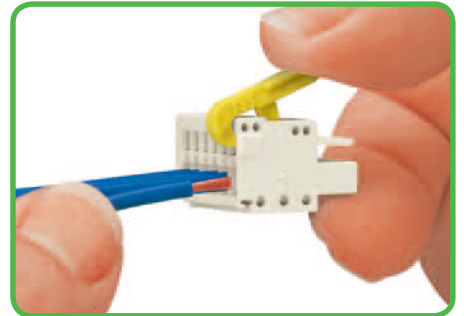
733 Series

100% protected against mismatching

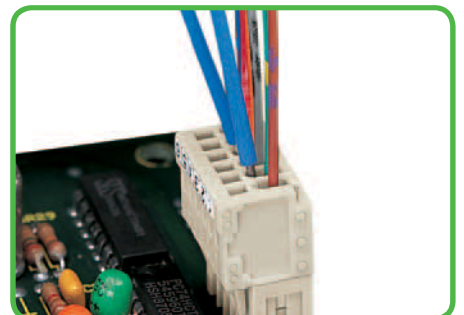


MCS-MICRO

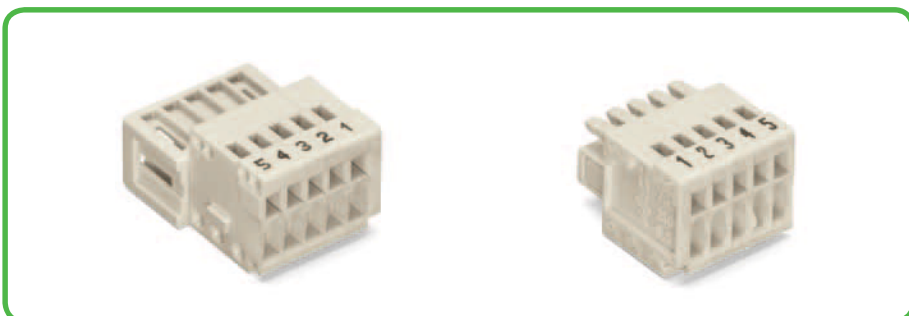
Pin spacing 2.5 mm/0.098 in



Inserting conductor via 733-191 operating lever.



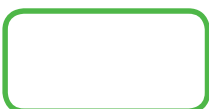
Testing with Ø 1 mm test pin (735-500), touch contact with current bar.



Marking options via self-adhesive marker strips or factory direct printing.



Strain relief plates for factory or in-the-field assembly.



fine-stranded, tip-bonded

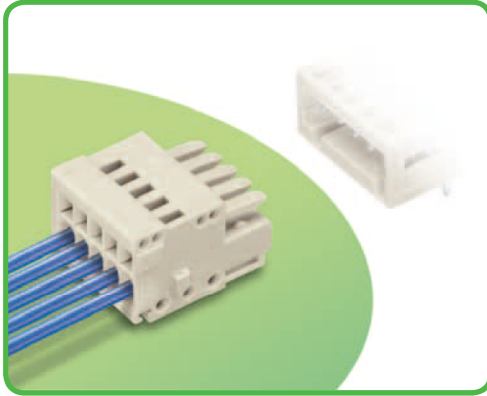


fine-stranded with crimped ferrules (gas-tight)



fine-stranded with crimped pin ends (gas-tight)

## Female Connectors Pin Spacing 2.5 mm MCS-MICRO



- Universal connection for all conductor types
- Easy cable pre-assembly and on-unit wiring via vertical and horizontal CAGE CLAMP® actuation
- Strain relief plates for field or factory assembly
- 100% protected against mismatching
- With coding fingers

### Technical data:

Pin Spacing	2.5 mm 0.098 in		
Rating per	IEC/EN 60664-1		
Overtoltage category	III	III	II
Pollution degree	3	2	2
Rated voltage	100 V	160 V	320 V
Rated surge voltage	2.5 kV	2.5 kV	2.5 kV
Nominal current	6 A	6 A	6 A
Approvals per	UL/CSA		
Use group UL 1059	B	C	D
Rated voltage	150 V	-	-
Nominal current UL	4 A	-	-
Nominal current CSA	4 A	-	-

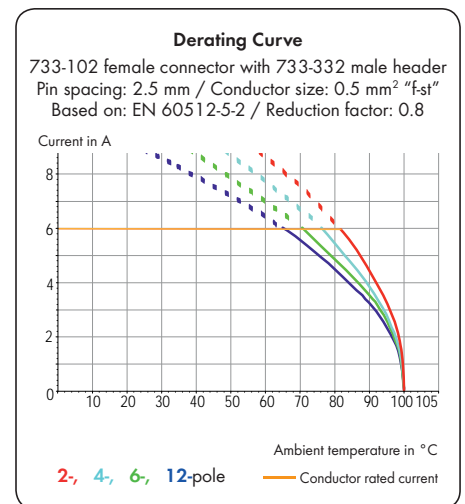
### Conductor data:

Connection technology	CAGE CLAMP®
Conductor size: solid	0.08 - 0.5 mm <sup>2</sup>
Conductor size: fine-stranded	0.08 - 0.5 mm <sup>2</sup>
Conductor size: fine-stranded	0.25 - 0.34 mm <sup>2</sup> (with insulated ferrule)
Conductor size: fine-stranded	0.25 - 0.34 mm <sup>2</sup> (with uninsulated ferrule)
AWG	28 - 20
Strip length	5 - 6 mm / 0.20 - 0.24 in

### Material data:

Material group	I
Insulating material	Nylon 6.6 (PA 6.6)
Flammability rating per UL 94	V0
Lower/Upper temperature limit	-60°C / +100°C
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Copper alloy
Contact plating	tin-plated
MCS connectors are also available upon request with gold-plated or partially gold-plated contact surfaces.	
Depending on the version requested, "item no. suffix ... /010-000" is added to the "basic item no."	

MCS - MULTI CONNECTION SYSTEM includes connectors **without** breaking capacity in accordance with IEC 61984. When used as intended, these connectors shall not be connected/disconnected when live or under load. The circuit design ensure that header pins, which can be touched, are not live in unmated condition.



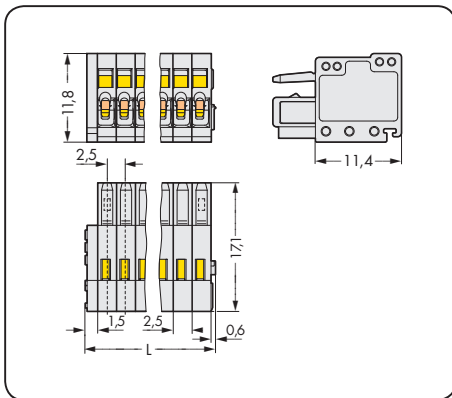
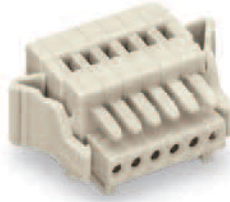
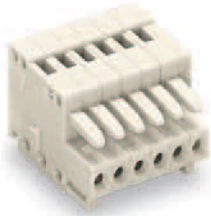
### MCS-MICRO accessories:

### Page:

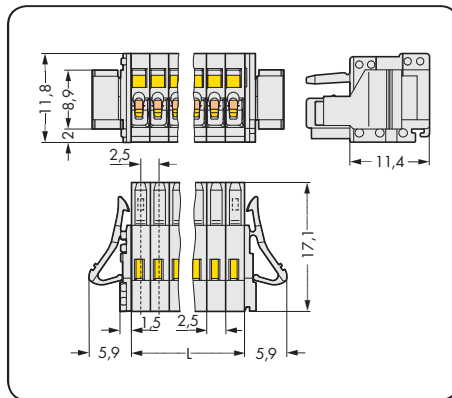
Marking accessories	540 - 543
Operating tools	236 - 237
Direct marking	239
Test pin	538
Strain relief plates	238

# Female Connectors MCS-MICRO

Pin spacing 2.5 mm / 0.098 in		With locking levers Pin spacing 2.5 mm / 0.098 in	
0.08 – 0.5 mm <sup>2</sup>	AWG 28 – 20	0.08 – 0.5 mm <sup>2</sup>	AWG 28 – 20
160 V/2.5 kV/2 6 A	150 V/4 A	160 V/2.5 kV/2 6 A	150 V/4 A



L = (pole no. x pin spacing) + 2.1 mm



L = pole no. x pin spacing

Pole No.	Item No.	Pack. Unit	Pole No.	Item No.	Pack. Unit
Female connector, light gray			Female connector with locking levers, light gray		
2	733-102	200	2	733-102/037-000	100
3	733-103	200	3	733-103/037-000	100
4	733-104	200	4	733-104/037-000	100
5	733-105	100	5	733-105/037-000	100
6	733-106	100	6	733-106/037-000	100
7	733-107	100	7	733-107/037-000	50
8	733-108	100	8	733-108/037-000	50
9	733-109	100	9	733-109/037-000	50
10	733-110	100	10	733-110/037-000	50
12	733-112	50	12	733-112/037-000	50