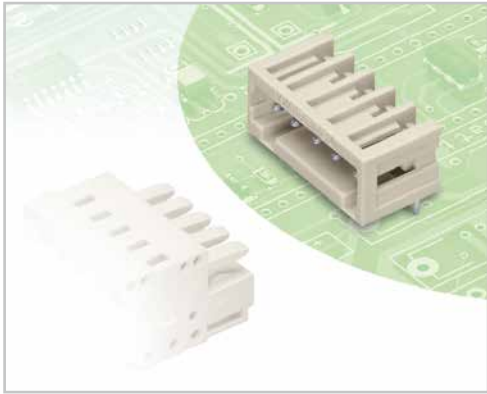


# 4 Male Headers with Solder and Press-In Pins, MCS-MIDI

## Pin Spacing: 3.5 mm, 3.81 mm

### MCS MINI



- Male headers may be mounted horizontally or vertically via straight or angled solder pins
- 1 x 1 mm pin cross section (MCS MINI) allows a nominal current of 10 A
- Double-deck male headers save space on the PCB, providing a large number of “wire-to-board” connections
- 100% protected against mismatching
- Coding pins available

**Technical data:**

Pin Spacing	3.5/3.81 mm 0.138 in.			3.5/3.81 mm 0.138 in.			3.5/3.81 mm 0.138 in.		
	IEC/EN 60664-1			IEC/EN 60664-1			IEC/EN 60664-1		
Ratings per	III	III	II	III	III	II	III	III	II
Overtoltage category	3	2	2	3	2	2	3	2	2
Pollution degree	3	2	2	3	2	2	3	2	2
Rated voltage	160 V	160 V	320 V	160 V	160 V	320 V	160 V	160 V	320 V
Rated surge voltage	2.5 kV	2.5 kV	2.5 kV	2.5 kV	2.5 kV	2.5 kV	2.5 kV	2.5 kV	2.5 kV
Nominal current	10 A	10 A	10 A	8 A	8 A	8 A	10 A	10 A	10 A
Approvals per	UL/CSA			UL/CSA			UL/CSA		
Use group UL 1059	B	C	D	B	C	D	B	C	D
Rated voltage	300 V	-	300 V	300 V	-	300 V	300 V	-	300 V
Nominal current UL	10 A	-	10 A	10 A	-	10 A	10 A	-	10 A
Nominal current CSA	10 A	-	10 A	10 A	-	10 A	10 A	-	10 A

**Press-in technology:**

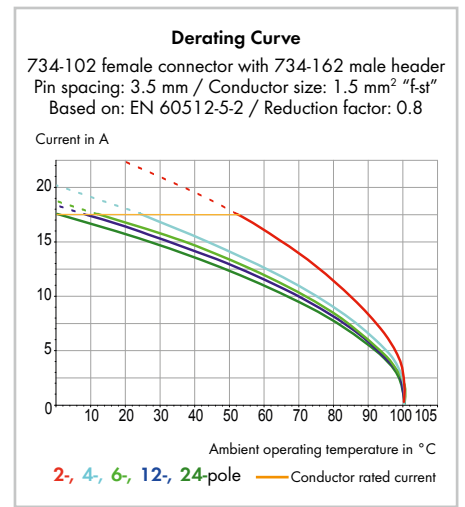
**Double-deck version:**

**Solder and press-in pin data:**

Solder pin: length/width	4.5 mm / 1 x 1 mm (straight)
Solder pin: length/width	3.8 mm / 1 x 1 mm (angled)
Solder pin: length/width	3.6 mm / 1 x 1 mm (double-deck male headers)
Solder pin: drilled hole diameter	1.4 <sup>+0.1</sup> mm
Press-in pin: length/width	2.9 mm / 0.6 x 1.2 mm
Press-in pin: drilled hole diameter	1,15 <sup>±0.025</sup>
Press-in pin: metal-plated hole	1.0 Ø <sup>+0.009</sup> <sub>-0.008</sub> mm (HAL Sn)
Press-in pin: metal-plated hole	1.0 Ø <sup>+0.009</sup> <sub>-0.008</sub> mm (Chem. Sn)
For other pin lengths, please contact factory.	

**Material data:**

Material group	I
Insulating material	Polyamide 66 (PA 66)
Flammability class per UL 94	V0
Lower/Upper limit temperature	-60 °C / +100 °C / Press-in pin: -40 °C / +85 °C
Contact material	Electrolytic copper (E <sub>cu</sub> ) / Copper alloy for press-in technology
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 MINI accessory:**

**Page:**

Coding keys	273

The MULTI CONNECTION SYSTEM (MCS) is designed without breaking capacity for compliance with DIN EN 61984. When used as intended, these connectors shall not be connected/disconnected when live or under load. The circuit design should ensure header pins, which can be touched, are not live when unmated.

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