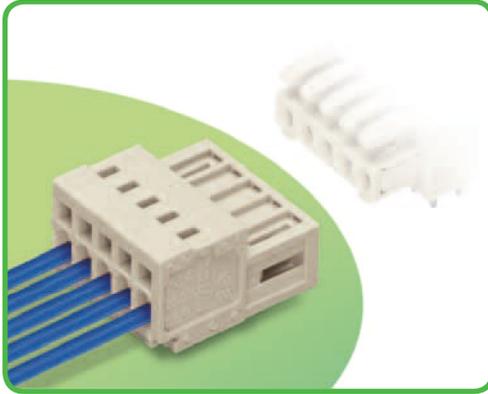


Male Connectors Pin Spacing 3.5 mm, 3.81 mm MCS-MINI



- Universal connection for all conductor types
- Easy cable pre-assembly and on-unit wiring via vertical and horizontal CAGE CLAMP® actuation
- For “wire-to-wire” and “board-to-wire” connections
- Strain relief plates and housings for factory and in-the-field assembly
- 100% protected against mismatching
- With coding keys

Technical data:

Pin Spacing	3.5 mm 0.138 in			3.81 mm 0.15 in		
	IEC/EN 60664-1			IEC/EN 60664-1		
Rating per	III	III	II	III	III	II
Overtoltage category	III	III	II	III	III	II
Pollution degree	3	2	2	3	2	2
Rated voltage	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
Nominal current	10 A	10 A	10 A	10 A	10 A	10 A
Approvals per	UL/CSA			UL/CSA		
Use group UL 1059	B	C	D	B	C	D
Rated voltage	300 V	-	300 V	300 V	-	300 V
Nominal current UL	10 A	-	10 A	10 A	-	10 A
Nominal current CSA	10 A	-	10 A	10 A	-	10 A

Conductor data:

Connection technology	CAGE CLAMP®	
Conductor size: solid	0.08 - 1.5 mm ²	
Conductor size: fine-stranded	0.08 - 1.5 mm ²	
Conductor size: fine-stranded	0.25 - 1.5 mm ² (with insulated ferrule)*	
Conductor size: fine-stranded	0.25 - 1.5 mm ² (with uninsulated ferrule)	
AWG	28 - 14	14: THHN, THWN
Strip length	6 - 7 mm / 0.24 - 0.28 in	
* Only every other clamping unit can be terminated using 1.5 mm ² connectors with insulated ferrules.		

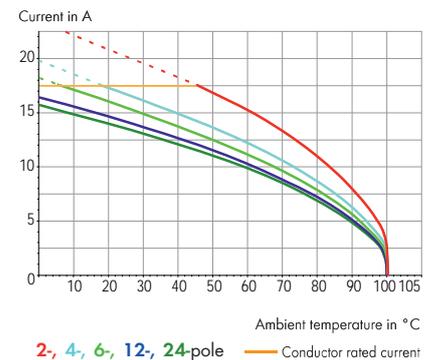
Material data:

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	Electrolytic copper (E _{cu})
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 should ensure header pins, which can be touched, are not live in unmated condition.

Derating Curve

734-102 female connector with 734-302 male connector
Pin spacing: 3.5 mm / Conductor size: 1.5 mm² “f-st”
Based on: EN 60512-5-2 / Reduction factor: 0.8

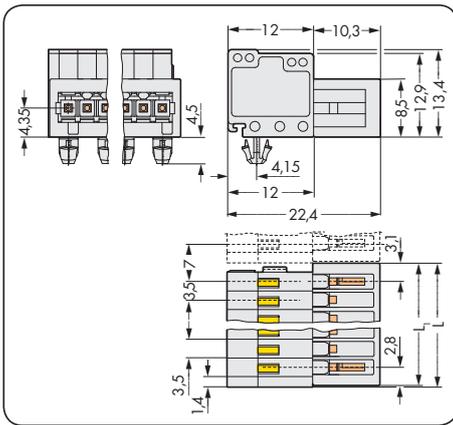
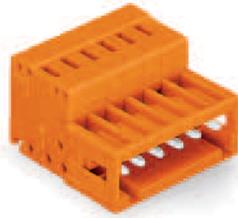
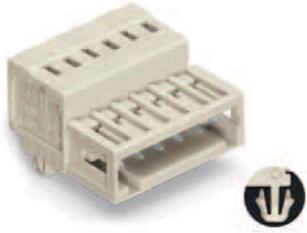


MCS-MINI accessories:

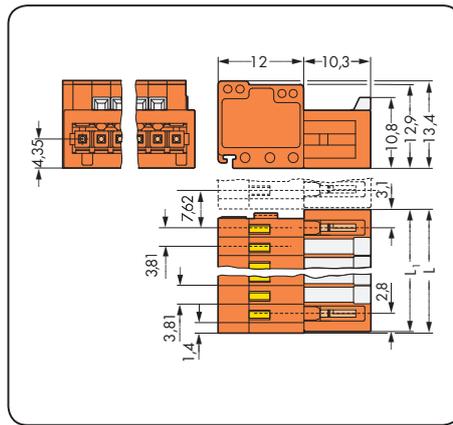
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Marking accessories	540 - 543
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Strain relief housing	276
Stress relief plates	277

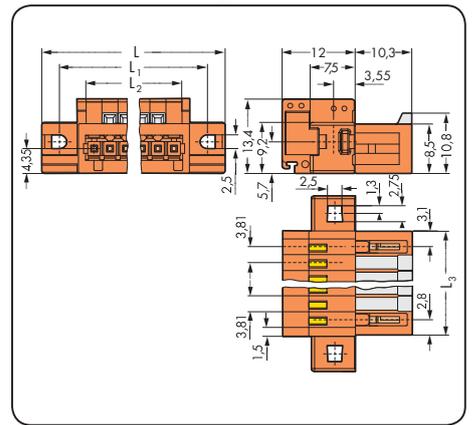
With Snap-in mounting feet Pin spacing 3.5 mm / 0.138 in		Pin spacing 3.81 mm / 0.15 in		With fixing flanges Pin spacing 3.81 mm / 0.15 in	
0.08 - 1.5 mm ²	AWG 28 - 14	0.08 - 1.5 mm ²	AWG 28 - 14	0.08 - 1.5 mm ²	AWG 28 - 14
160 V/2.5 kV/2 10 A	300 V/10 A	160 V/2.5 kV/2 10 A	300 V/10 A	160 V/2.5 kV/2 10 A	300 V/10 A



$L = (\text{pole no.} - 1) \times \text{pin spacing} + 5.9 \text{ mm} + 0.45 \text{ mm}$
 $L_1 = L - 0.45 \text{ mm}$



$L = (\text{pole no.} - 1) \times \text{pin spacing} + 5.9 \text{ mm} + 0.45 \text{ mm}$
 $L_1 = L - 0.45 \text{ mm}$



$L = \text{pole no.} \times \text{pin spacing} + 14.8 \text{ mm}$
 $L_1 = \text{pole no.} \times \text{pin spacing} + 8.8 \text{ mm}$
 $L_2 = \text{pole no.} \times \text{pin spacing}$
 $L_3 = (\text{pole no.} - 1) \times \text{pin spacing} + 5.9 \text{ mm}$

Pole No.	Item No.	Pack. Unit	Pole No.	Item No.	Pack. Unit	Pole No.	Item No.	Pack. Unit
Male connector with snap-in mounting feet, for 0.6 - 1.2 mm plate thickness, Ø 3.5 mm mounting holes, light gray			Male connector, orange			Male connector with fixing flanges, orange		
2	734-302/018-000	200	2	734-332	200	2	734-332/019-000	100
3	734-303/018-000	200	3	734-333	200	3	734-333/019-000	100
4	734-304/018-000	100	4	734-334	100	4	734-334/019-000	50
5	734-305/018-000	100	5	734-335	100	5	734-335/019-000	50
6	734-306/018-000	100	6	734-336	100	6	734-336/019-000	50
7	734-307/018-000	100	8	734-338	50	8	734-338/019-000	50
8	734-308/018-000	50	9	734-339	50	9	734-339/019-000	50
9	734-309/018-000	50	10	734-340	50	10	734-340/019-000	50
10	734-310/018-000	50	12	734-342	25	12	734-342/019-000	25
11	734-311/018-000	50	14	734-344	25	14	734-344/019-000	25
12	734-312/018-000	50	16	734-346	25	16	734-346/019-000	25
13	734-313/018-000	50	18	734-348	25	18	734-348/019-000	25
14	734-314/018-000	50	19	734-349	25	19	734-349/019-000	25
16	734-316/018-000	25	20	734-350	25	20	734-350/019-000	25
18	734-318/018-000	25						
20	734-320/018-000	25						
24	734-324/018-000	25						
Three or more pole male connectors have a snap-in mounting foot at every other pole (2-pole male connectors/2 snap-in mounting feet)								
Product Accessories		Page						
Mounting adapter for DIN 35 rail, min. length 3 poles (209-137)		475						