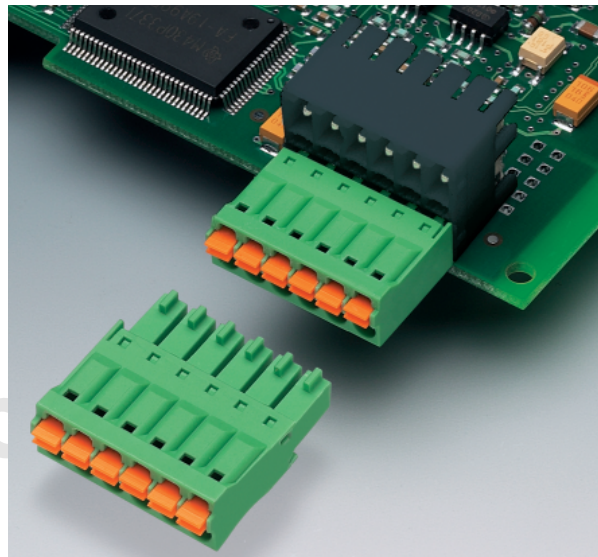


Flat MINI COMBICON Spring Cage Plugs FMC 1,5/... without and with Self-Locking Flanges or Screw Flanges with a 3.5 mm Pitch

The slim FMC 1,5/... plugs allow the users to further miniaturize their modules, while at the same time increasing the packing density on the PCB. The compact spring cage plug with a pitch of 3.5 mm is a mere 7.5 mm tall. Despite this low constructional height, MINI COMBICON has the usual connection space for conductor cross sections up to 1.5 mm². The plugs are available with 2 to 20 positions, optionally also with lateral screw or self-locking flange.



COMBICON Select

The COMBICON search engine with CAD downloading



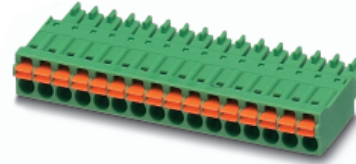
COMBICON Select – the printed circuit board connection software supports your workflow from the PCB and housing layout to the ordering process with:

- Systematic and fast selection of products
- Universal Internet aided engineering with extensive CAD downloading
- Easy-to-use e-shopping functions

<http://select.phoenixcontact.com>

FMC 1,5/...-ST-3,5

3.5 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.

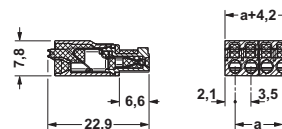
| Description | No. of pos. | Dim. a [mm] | Type | Order No. | Pcs./Pkt. |
|----------------------------------------------|-------------|-------------|-------------------|------------|-----------|
| Plugs, 3.5 mm pitch, color: green, | 2 | 3.5 | FMC 1,5/2-ST-3,5 | 19 52 26 7 | 50 |
| | 3 | 7 | FMC 1,5/3-ST-3,5 | 19 52 27 0 | |
| | 4 | 10.5 | FMC 1,5/4-ST-3,5 | 19 52 28 3 | |
| | 5 | 14 | FMC 1,5/5-ST-3,5 | 19 52 29 6 | |
| | 6 | 17.5 | FMC 1,5/6-ST-3,5 | 19 52 30 6 | |
| | 7 | 21 | FMC 1,5/7-ST-3,5 | 19 52 31 9 | |
| | 8 | 24.5 | FMC 1,5/8-ST-3,5 | 19 52 32 2 | |
| | 9 | 28 | FMC 1,5/9-ST-3,5 | 19 52 33 5 | |
| | 10 | 31.5 | FMC 1,5/10-ST-3,5 | 19 52 34 8 | |
| | 11 | 35 | FMC 1,5/11-ST-3,5 | 19 52 35 1 | |
| | 12 | 38.5 | FMC 1,5/12-ST-3,5 | 19 52 36 4 | |
| | 13 | 42 | FMC 1,5/13-ST-3,5 | 19 52 37 7 | |
| | 14 | 45.5 | FMC 1,5/14-ST-3,5 | 19 52 38 0 | |
| | 15 | 49 | FMC 1,5/15-ST-3,5 | 19 52 39 3 | |
| | 16 | 52.5 | FMC 1,5/16-ST-3,5 | 19 52 40 3 | |
| | 17 | 56 | FMC 1,5/17-ST-3,5 | 19 52 41 6 | |
| | 18 | 59.5 | FMC 1,5/18-ST-3,5 | 19 52 42 9 | |
| | 19 | 63 | FMC 1,5/19-ST-3,5 | 19 52 43 2 | |
| | 20 | 66.5 | FMC 1,5/20-ST-3,5 | 19 52 44 5 | |

(1) **Marker card**, with 14 pcs.
10-section marker strips, white,
self-adhesive, for 140 terminal blocks

SK 3,5/2,8
(see COMBICON catalog)

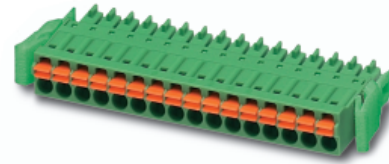
Technical data

| | | | |
|-------------------------------------------------------------------|---------------------------------|-------------|--------|
| Dimensions | see description | | |
| Pitch | 3.5 | | |
| Technical data in accordance with IEC/ DIN VDE | | | |
| Insulating material group | I | | |
| Surge voltage category / contamination class | III / 3 | III / 2 | II / 2 |
| Rated voltage | 160 | 200 | 400 |
| Rated surge voltage | 2.5 | 2.5 | 2.5 |
| Nominal current / cross section | 6 / 1.5 | | |
| Maximum load current / cross section | 6 / 1.5 | | |
| Connection capacity | | | |
| Solid / stranded / conductor sizes | 0.2 - 1.5 / 0.2 - 1.5 / 24 - 16 | | |
| Stranded with ferrule without / with plastic sleeve | 0.2 - 1.5 / 0.2 - 0.75 | | |
| Multiple connection (2 conductors with same cross section) | — | | |
| Stranded with TWIN ferrule with plastic sleeve | — | | |
| Stripping length | 10 | | |
| Internal cylindrical gauge (IEC 60 947-1) | A 1 | | |
| Insulating material | PA | | |
| Inflamability 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 | — | |



FMC 1,5/...-ST-3,5-RF

3.5 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.

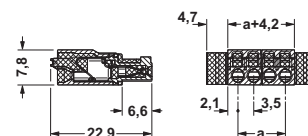
| Description | No. of pos. | Dim. a [mm] | Type | Order No. | Pcs./Pkt. |
|--------------------------------------------------------------------|-------------|-------------|----------------------|------------|-----------|
| Plugs with self-locking flange, 3.5 mm pitch, color: green, | 2 | 3.5 | FMC 1,5/2-ST-3,5-RF | 19 52 02 1 | 50 |
| | 3 | 7 | FMC 1,5/3-ST-3,5-RF | 19 52 03 4 | |
| | 4 | 10.5 | FMC 1,5/4-ST-3,5-RF | 19 52 04 7 | |
| | 5 | 14 | FMC 1,5/5-ST-3,5-RF | 19 52 05 0 | |
| | 6 | 17.5 | FMC 1,5/6-ST-3,5-RF | 19 52 06 3 | |
| | 7 | 21 | FMC 1,5/7-ST-3,5-RF | 19 52 07 6 | |
| | 8 | 24.5 | FMC 1,5/8-ST-3,5-RF | 19 52 08 9 | |
| | 9 | 28 | FMC 1,5/9-ST-3,5-RF | 19 52 09 2 | |
| | 10 | 31.5 | FMC 1,5/10-ST-3,5-RF | 19 52 10 2 | |
| | 11 | 35 | FMC 1,5/11-ST-3,5-RF | 19 52 11 5 | |
| | 12 | 38.5 | FMC 1,5/12-ST-3,5-RF | 19 52 12 8 | |
| | 13 | 42 | FMC 1,5/13-ST-3,5-RF | 19 52 13 1 | |
| | 14 | 45.5 | FMC 1,5/14-ST-3,5-RF | 19 52 14 4 | |
| | 15 | 49 | FMC 1,5/15-ST-3,5-RF | 19 52 15 7 | |
| | 16 | 52.5 | FMC 1,5/16-ST-3,5-RF | 19 52 16 0 | |
| | 17 | 56 | FMC 1,5/17-ST-3,5-RF | 19 52 17 3 | |
| | 18 | 59.5 | FMC 1,5/18-ST-3,5-RF | 19 52 18 6 | |
| | 19 | 63 | FMC 1,5/19-ST-3,5-RF | 19 52 19 9 | |
| | 20 | 66.5 | FMC 1,5/20-ST-3,5-RF | 19 52 20 9 | |

(1) **Marker card**, with 14 pcs.
10-section marker strips, white,
self-adhesive, for 140 terminal blocks

SK 3,5/2,8
(see COMBICON catalog)

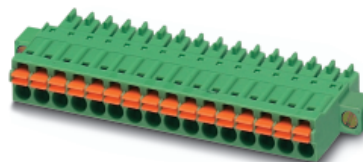
Technical data

| | | | | |
|-------------------------------------------------------------------|-------------------------------------------|---------------------------------|---------|--------|
| Dimensions | see description | | | |
| Pitch | [mm] | 3.5 | | |
| Technical data in accordance | | | | |
| Insulating material group | - | I | | |
| Surge voltage category / contamination class | -/- | III / 3 | III / 2 | II / 2 |
| Rated voltage | [V] | 160 | 200 | 400 |
| Rated surge voltage | [kV] | 2.5 | 2.5 | 2.5 |
| Nominal current / cross section | [A]/[mm ²] | 6 / 1.5 | | |
| Maximum load current / cross section | [A]/[mm ²] | 6 / 1.5 | | |
| Connection capacity | | | | |
| Solid / stranded / conductor sizes | [mm ²]/[mm ²]/AWG | 0.2 - 1.5 / 0.2 - 1.5 / 24 - 16 | | |
| Stranded with ferrule without / with plastic sleeve | [mm ²] | 0.2 - 1.5 / 0.2 - 0.75 | | |
| Multiple connection (2 conductors with same cross section) | | | | |
| Stranded with TWIN ferrule with plastic sleeve | [mm ²] | — | | |
| Stripping length | [mm] | 10 | | |
| Internal cylindrical gauge (IEC 60 947-1) | - | A1 | | |
| 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 CSA:[V]/[A]/AWG | applied for — | | |



FMC 1,5/...-STF-3,5

3.5 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.

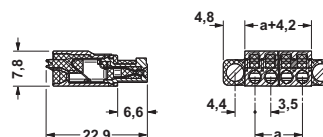
| Description | No. of pos. | Dim. a [mm] | Type | Order No. | Pcs./Pkt. |
|-------------------------------------------------------------|-------------|-------------|--------------------|------------|-----------|
| Plugs with screw flange, 3.5 mm pitch, color: green, | 2 | 3.5 | FMC 1,5/2-STF-3,5 | 19 66 09 1 | 50 |
| | 3 | 7 | FMC 1,5/3-STF-3,5 | 19 66 10 1 | |
| | 4 | 10.5 | FMC 1,5/4-STF-3,5 | 19 66 11 4 | |
| | 5 | 14 | FMC 1,5/5-STF-3,5 | 19 66 12 7 | |
| | 6 | 17.5 | FMC 1,5/6-STF-3,5 | 19 66 13 0 | |
| | 7 | 21 | FMC 1,5/7-STF-3,5 | 19 66 14 3 | |
| | 8 | 24.5 | FMC 1,5/8-STF-3,5 | 19 66 15 6 | |
| | 9 | 28 | FMC 1,5/9-STF-3,5 | 19 66 16 9 | |
| | 10 | 31.5 | FMC 1,5/10-STF-3,5 | 19 66 17 2 | |
| | 11 | 35 | FMC 1,5/11-STF-3,5 | 19 66 18 5 | |
| | 12 | 38.5 | FMC 1,5/12-STF-3,5 | 19 66 19 8 | |
| | 13 | 42 | FMC 1,5/13-STF-3,5 | 19 66 20 8 | |
| | 14 | 45.5 | FMC 1,5/14-STF-3,5 | 19 66 21 1 | |
| | 15 | 49 | FMC 1,5/15-STF-3,5 | 19 66 22 4 | |
| | 16 | 52.5 | FMC 1,5/16-STF-3,5 | 19 66 23 7 | |
| | 17 | 56 | FMC 1,5/17-STF-3,5 | 19 66 24 0 | |
| | 18 | 59.5 | FMC 1,5/18-STF-3,5 | 19 66 25 3 | |
| | 19 | 63 | FMC 1,5/19-STF-3,5 | 19 66 26 6 | |
| | 20 | 66.5 | FMC 1,5/20-STF-3,5 | 19 66 27 9 | |

(1) **Marker card**, with 14 pcs.
10-section marker strips, white, self-adhesive, for 140 terminal blocks

SK 3,5/2,8
(see COMBICON catalog)

Technical data

| | | | | |
|-------------------------------------------------------------------|--|-------------------------------------------|--|---------------------------------|
| Dimensions | | | | |
| Pitch | | [mm] | | see description |
| Technical data in accordance with IEC/ DIN VDE | | | | |
| Insulating material group | | | | I |
| Surge voltage category / contamination class | | | | III / 3 III / 2 II / 2 |
| Rated voltage | | [V] | | 160 200 400 |
| Rated surge voltage | | [kV] | | 2.5 2.5 2.5 |
| Nominal current / cross section | | [A]/[mm ²] | | 6 / 1.5 |
| Maximum load current / cross section | | [A]/[mm ²] | | 6 / 1.5 |
| Connection capacity | | | | |
| Solid / stranded / conductor sizes | | [mm ²]/[mm ²]/AWG | | 0.2 - 1.5 / 0.2 - 1.5 / 24 - 16 |
| Stranded with ferrule without / with plastic sleeve | | [mm ²] | | 0.2 - 1.5 / 0.2 - 0.75 |
| Multiple connection (2 conductors with same cross section) | | | | |
| Stranded with TWIN ferrule with plastic sleeve | | [mm ²] | | — |
| Stripping length | | [mm] | | 10 |
| Internal cylindrical gauge (IEC 60 947-1) | | | | A1 |
| 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 CSA:[V]/[A]/AWG | | applied for |
| | | | | — |



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