

Assembly instructions

SNAP IN connector -

MPS 6

OMNIMATE® 4.0 – series MPS 6

All other technical data can be obtained from the data sheet.

Cables suitable for connection:

Strip the insulation (outer diameter of insulation max. 5.1 mm) from the cables to a length of 11 mm ± 1 mm. If you are using wire-end ferrules, strip the cables according to the tables below.

	min. cable connection cross section	max. cable connection cross section
Solid (H05(07) V-U)	0.5 mm ²	4 mm ²
Flexible (H05(07) V-K)	0.75 mm ² ¹⁾	6 mm ² ^{1) 3)}
with wire-end ferrule with collar DIN 46 228/4	0.5 mm ²	4 mm ² ²⁾
with wire-end ferrule according to DIN 46 228/1	0.5 mm ²	4 mm ² ²⁾
AWG	AWG 22 ⁴⁾	AWG 10 ³⁾

¹⁾: According to DIN EN 60352, it is recommended to slightly twist the individual strands after stripping to restore the original condition.

²⁾: Restriction for max. wire cross-section: crimp shape according to European standard EN 60947-1. We recommend the following crimping tools:

- Crimping tool for wire-end ferrule of 0.5 mm² to 4 mm² with trapezoidal indentation crimp, type PZ6/5 (Order No. 9011460000)
- Crimping tool for wire-end ferrule of 0.5 mm² to 4 mm² with trapezoidal crimp, type PZ 6 ROTO (Order No. 9014350000)

³⁾: The maximum cross-sections in combination with the minimum stripping length of 10 mm may require some additional insertion force. We recommend using the stripping length of 11-12 mm.

⁴⁾: We recommend the use of solid AWG 1/22 or multi-stranded (AWG 7/22) conductors, as with fine-stranded conductors AWG 19/22 the conductor may have to be plugged in several times to activate the SNAP IN mechanism.

We recommend using the following wire-end ferrules with plastic collar:

For additional information on processing wire-end ferrules with plastic collar, please refer to the technical information document:

[Weidmüller Technical Information – Wire-end ferrules with plastic collar](#)

Cable diameter	Type	Weidmüller color code Order number	DIN color code Order number	Stripping length
0.5 mm ²	H0,5/18	1076980000	1076990000	14 mm
0.5 mm ²	H0,5/16	9025870000	9019020000	12 mm
0.75 mm ²	H0,75/18	9025910000	9019060000	14 mm
0.75 mm ²	H0,75/16	9028290000	9019050000	12 mm
1 mm ²	H1,0/18	9025930000	9019110000	15 mm
1 mm ²	H1,0/16	9025950000	9019100000	12 mm
1.5 mm ²	H1,5/18		9019140000	15 mm
1.5 mm ²	H1,5/16	0635100000	9019130000	12 mm
2.5 mm ²	H2,5/19	9021080000	9019170000	14 mm
2.5 mm ²	H2,5/16S	9036220000		13 mm
4 mm ²	H4,0/20	9021110000	9019200000	14 mm
4 mm ²	H4,0/18	9021100000	9019190000	12 mm ⁵⁾

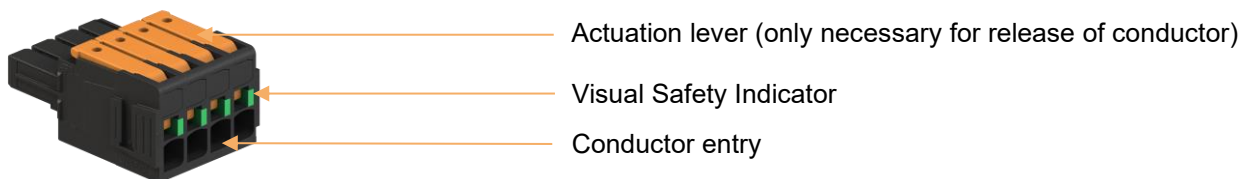
⁵⁾: For certain ferrule geometries (e.g. trapezoidal crimp shapes), a higher insertion force may be required. To support reliable insertion, we recommend to use our crimping tool with trapezoidal indentation crimp, type PZ6/5 (Order No. 9011460000). Alternatively, a slight protrusion of the conductor beyond the ferrule of up to 0.5 mm is permissible for conductors up to 4 mm². It must be ensured that no individual strands protrude or can cause short circuits and that the conductor is fully inserted into the contact area.

We recommend using the following wire-end ferrules without plastic collar:

Cable diameter	Type	Order number	Stripping length
0.5 mm ²	H0,5/10	9004050000	10 mm
0.75 mm ²	H0,75/10	0542500000	10 mm
1 mm ²	H1,0/10	0282800000	10 mm
1.5 mm ²	H1,5/12	9004060000	12 mm
1.5 mm ²	H1,5/10	0186500000	10 mm
2.5 mm ²	H2,5/12	0186100000	12 mm
2.5 mm ²	H2,5/10	9004080000	10 mm
4 mm ²	H4,0/12	0244100000	12 mm

Handling of SNAP IN connector MPS 6

The SNAP IN connection enables direct tool-free insertion of conductors. The clamping mechanism automatically closes and locks the conductor when it is fully inserted.



Delivery status:

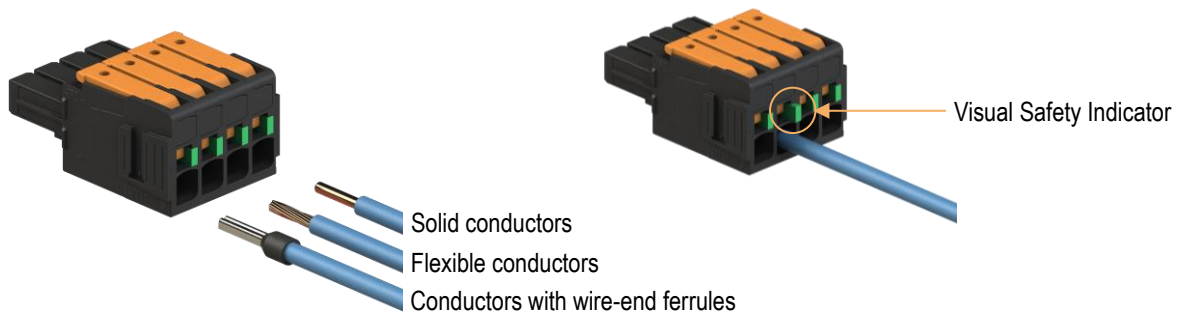
- If transportation is carried out correctly, all clamping points are open and ready for direct wiring (wire ready if the Visual Safety Indicator does not protrude from the plug and is in line with the end of the product).
- In the very unlikely case that the transport was carried out incorrectly: The Visual Safety Indicator stands out of the product. Please use the lever to open the clamping point (see below step „Release conductors / re-wiring“).

Note: Due to the design of the Visual Safety Indicator, a certain mechanical tolerance in its position is normal. When checking the delivery status, ensure that the indicator can move into the connector housing when the clamping point is opened. If the indicator remains permanently outside of the connector and cannot be moved back into the housing, this indicates that the clamping point is closed. In this case, use the lever to open the clamping point before wiring (see below step „Release conductors / re-wiring“).

Connecting conductors:

1. Insert the conductor (flexible, solid or with wire-end ferrules) into the conductor entry until a noticeable click is heard and felt. The Visual Safety Indicator protrudes from the connector after successful insertion of the conductor. The exact position of the indicator may vary depending on the conductor cross-section.
2. Make sure that the conductor is inserted up to the end stop and verify the connection by gently pulling on the conductors.

Note: If the conductor is not fully inserted, the connection is not closed properly. Always ensure full insertion up to the end stop (noticeable click), Visual Safety Indicator protrudes from the connector housing, secure retention when pulling lightly on the wire.



Release conductors / re-wiring:

1. To release the conductor, lift the lever completely until it reaches the end position. The clamping point is now open, and the Visual Safety Indicator returns into the plug. Its end surface is in line with the edge or inside of the product again. Please observe that the actuating force must be max. 45N.
2. Remove the conductor.
3. Push down the lever to its initial position. The clamping point is directly open and ready for the next wiring.

Note: If the conductor cannot be removed, the lever may not have been fully opened. In this case, operate the lever again until a noticeable release ("click") is felt. Only then is the clamping point fully open and the conductor can be removed. Do not use excessive force when operating the lever. Always actuate the lever in a controlled manner within the specified maximum force.

