



Syntax SGH

Power Insert

Inline and Panel Female SGH 8.1 | SGH 16.1

Syntax Wireasy Technology

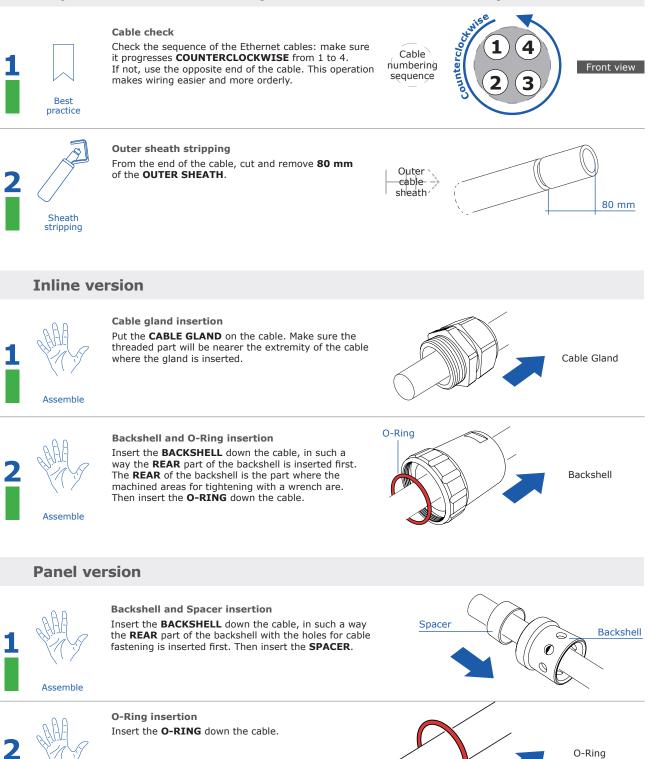


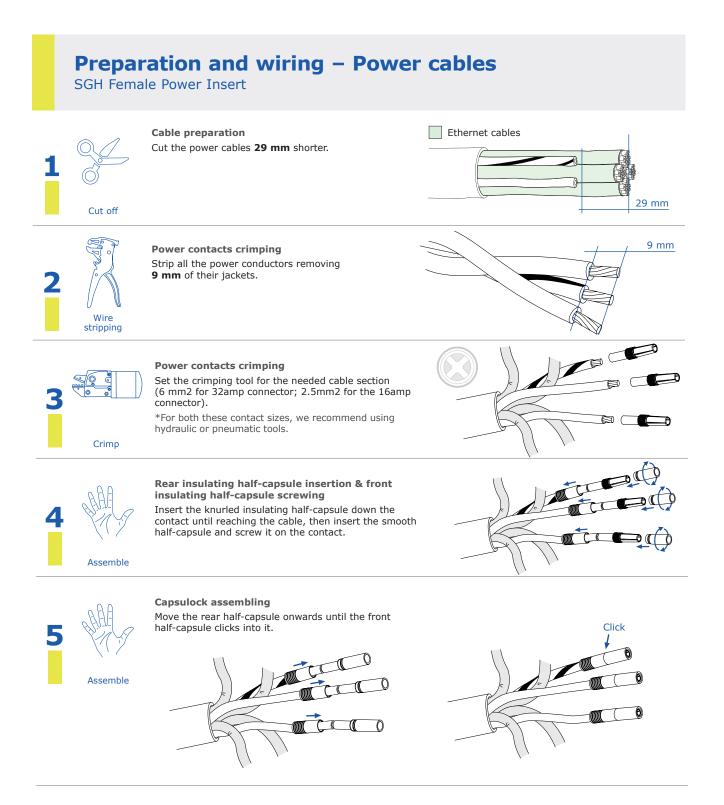
Preliminary operations

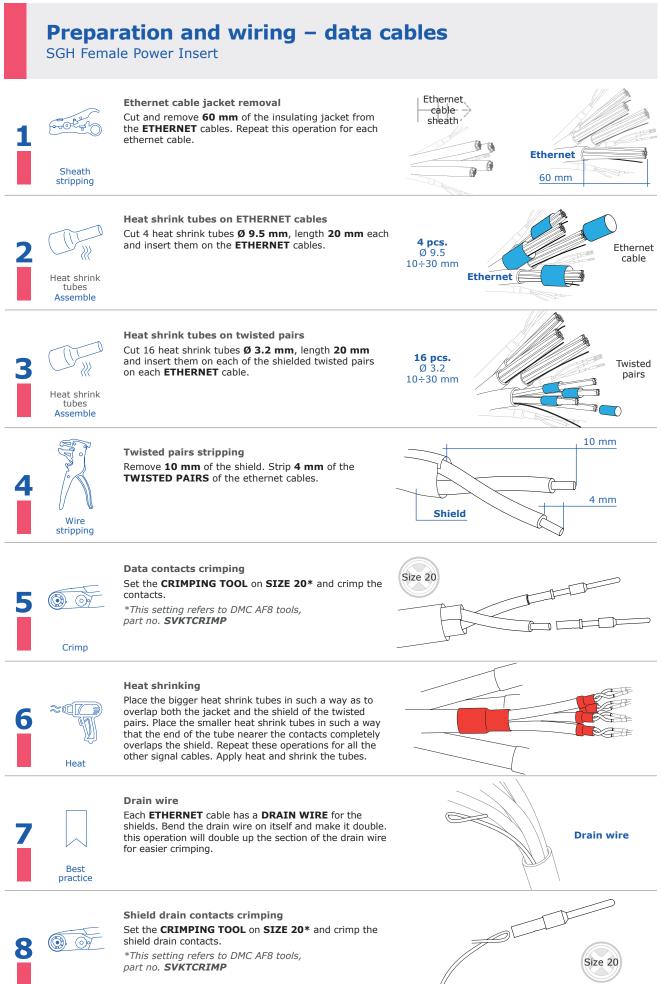


Assemble

Preparation for all versions (both Inline and Panel-mount)







Crimp

15/12/2021 Rev_0.4

Insertion of contacts, central insert and outer modules

SGH Female Power Insert





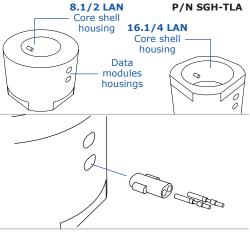
1 Insertion

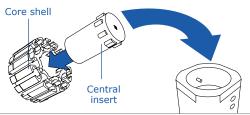
A specific tool allows easy contact insertion inside the modules. On the tool, there are two housings on the front side where the **DATA CONTACT MODULES** are placed, and a housing on both the top and the bottom for the central insert and **CORE SHELL** (one of those housings is for the 8.1 model, the other is for the 16.1 model). For correct usage of the tool, clamp it on a **VISE**.

Insertion of contacts inside the data contact modules Insert the data modules in the lower slot on the front side of the SGH-TLA tool. Use pliers to insert the contacts all the way down until they are locked in place. The color of the modules are compliant with the color patterns according to 568A/B. At this stage, the polarity of modules is not important, but it is however preferable to insert the contact of the solid-colored wire on the right of the module.

Central Insert and Core shell assembling

Fit the rubber central insert in the housing at the center of the core shell, paying attention to the keyways. Thanks to the keyways, the two elements are automatically interlocked in the right position. Place the two components with their front side facing downwards when fitting them in the housing on the top of the insertion **TOOL**.

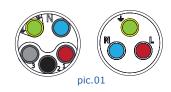


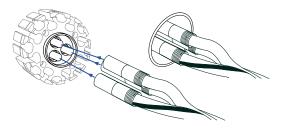




Assemble

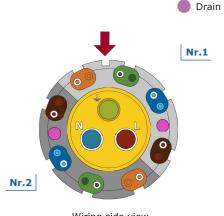
Connecting electric ferrules with power contacts Connect the ferrules (complete with their insulating capsules) onto the power contacts in the central insert. Make sure that the contacts and cables correspond to the polarity information embossed on the insert (pic.01).



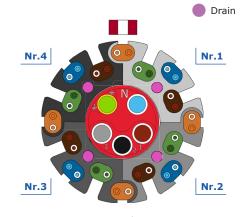


Data modules placement sequence

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Wiring side view 8.1/2 LAN

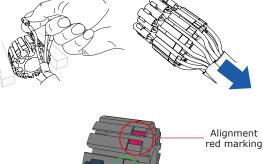


Wiring side view 16.1/4 LAN

Modules placement

Insert the modules in the correct housings according to the wiring diagram. Pass the cable through the open slots of the core shell.

Pay attention to the color of the modules and to the color and position of the striped and solid wires of the twisted pairs.





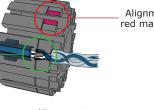
Assemble

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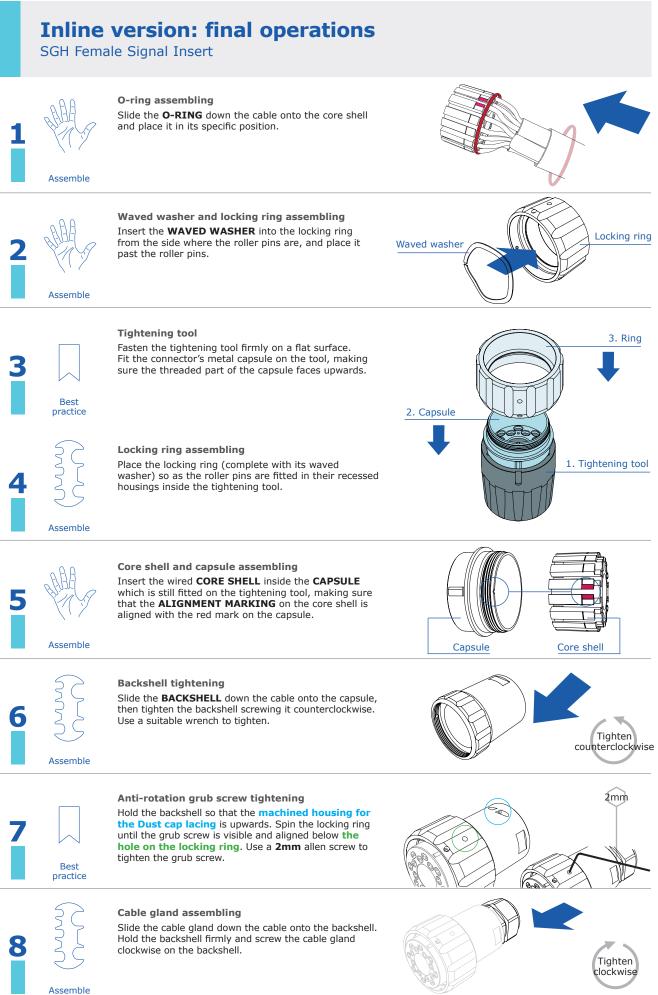
Alignment markings

The purpose of the **red marking** for the 16.1 series or the **longitudinal groove** for the 8.1 series is to provide a reference for a correct sequence of the colors of the signal contact pair modules. For a correct polarity of the **twisted pairs**, looking at the wiring side of the shell, insert the solid-colored wires on the right of the modules.

Solid - right Striped - left



Alignment longitudinal groove



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O-ring assembling

Slide the $\ensuremath{\textbf{O-RING}}$ down the cable onto the core shell and place it in its specific position.



Core shell

Tighten counterclockwise



Assemble

Assemble

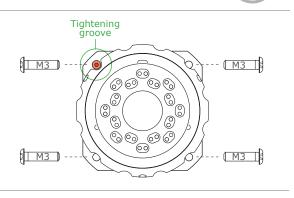
Waved washer and locking ring assembling Insert the wired CORE SHELL inside the CAPSULE which is still fitted on the tightening tool, making sure that the ALIGNMENT MARKING on the core shell is aligned with the red mark on the capsule.

Backshell tightening

Slide the **BACKSHELL** down the cable onto the flanged capsule. In so doing, the spacer will automatically be fitted inside the backshell. Then, tighten the backshell screwing it counterclockwise. Use a suitable wrench to tighten.



Insert four M3 button-head bolts into the corresponding holes on the connector's flange. To access the holes and tighten the bolts, spin the locking ring until the groove for the screwdriver is aligned with the holes



Capsule

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