

Wiring Instructions

Wiring instructions for Cat5e H and L modules

Revision C, 16/06/2024



General Instructions

- Cat5e module for H or L series is specified for cables with 2 twisted pairs UTP, FTP and STP with outer diameter from 4,50 mm to 9,00 mm.
- Inner contacts gauges: AWG 30 to 22 and AWG 24 to 18.
- Wiring instructions are the same for H or L modules and for male and female modules.
- Tooling: page 3
- Wiring instructions for standard version: page 5 to 11.
- Wiring instructions for low profile version: page 12 to 16.

Tooling



Wire cutter



Cable jacket stripping

Crimp contact AWG 24-18

Crimp contact AWG 30-22



M22520/1-01
AF8 (DMC P/N)



M22520/2-01
AFM8 (DMC P/N)



POSITIONER B-153 and B-200.
Supplied by Smiths interconnect



POSITIONER B055/A
Supplied by Smith interconnect



Professional electrician scissors



Adjustable torque wrench
Capacity 0-5N.m with drive size SW18

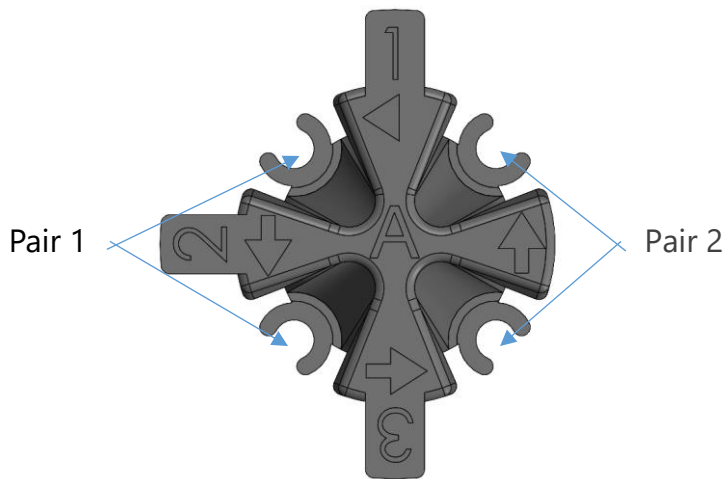


Adjustable Face Pin Wrench Set with pin Ø2mm
(lower version)

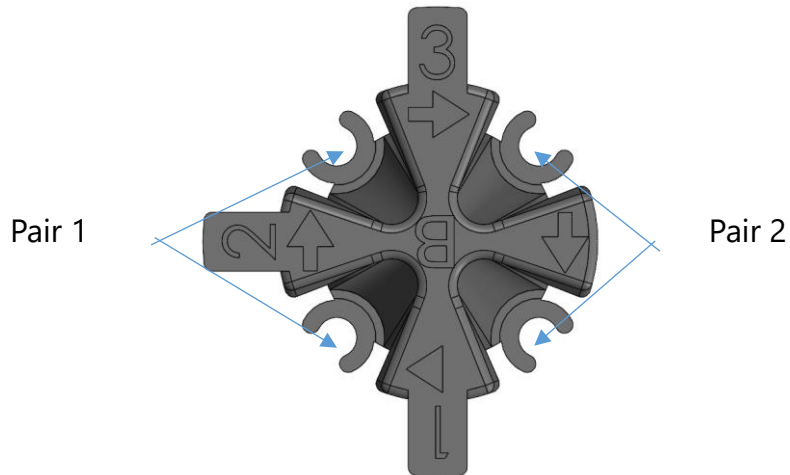


Warning

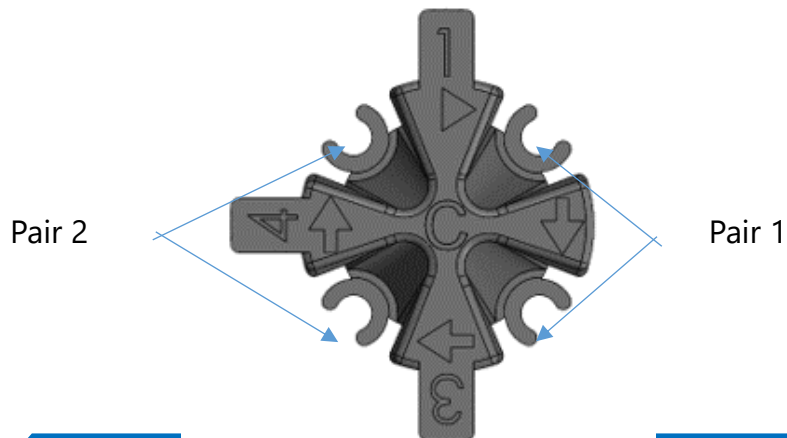
To reach the optimal performances of the Cat5e modules, one pair of wire must be installed in cavities N°1 and N°2 and the other pair must be installed in cavities N°3 and N°4



Insulator A
Module H & L
Receptacle side



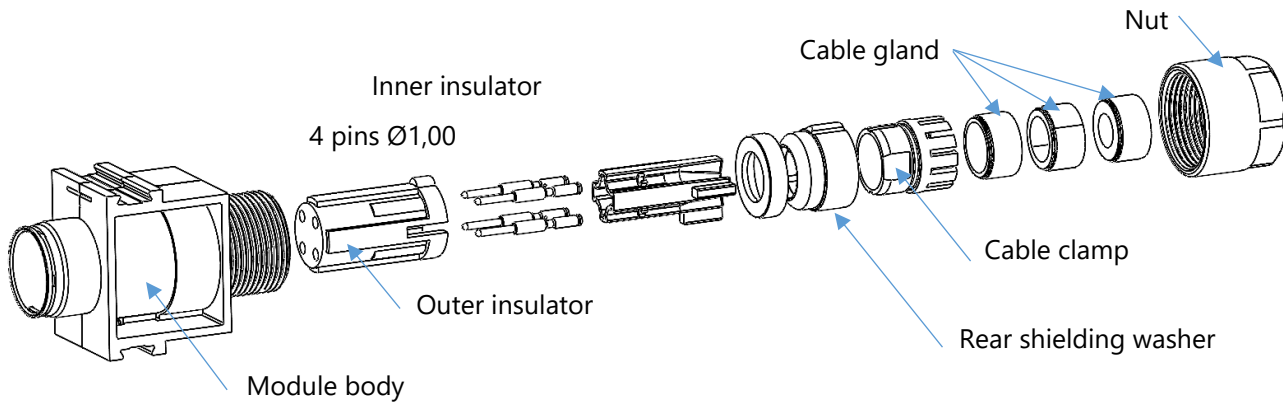
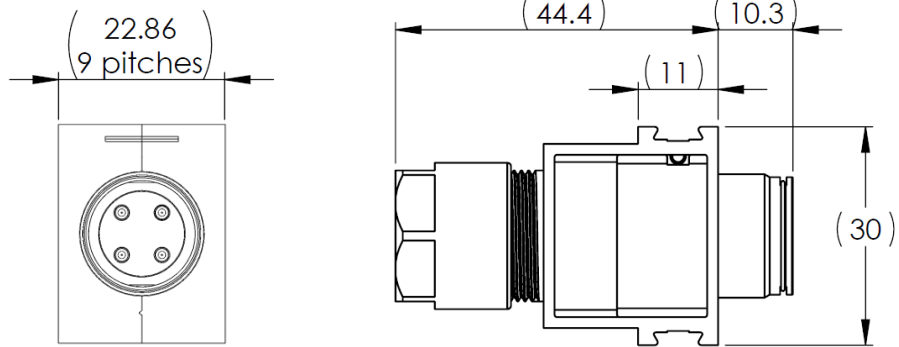
Insulator B
Module L
Plug side



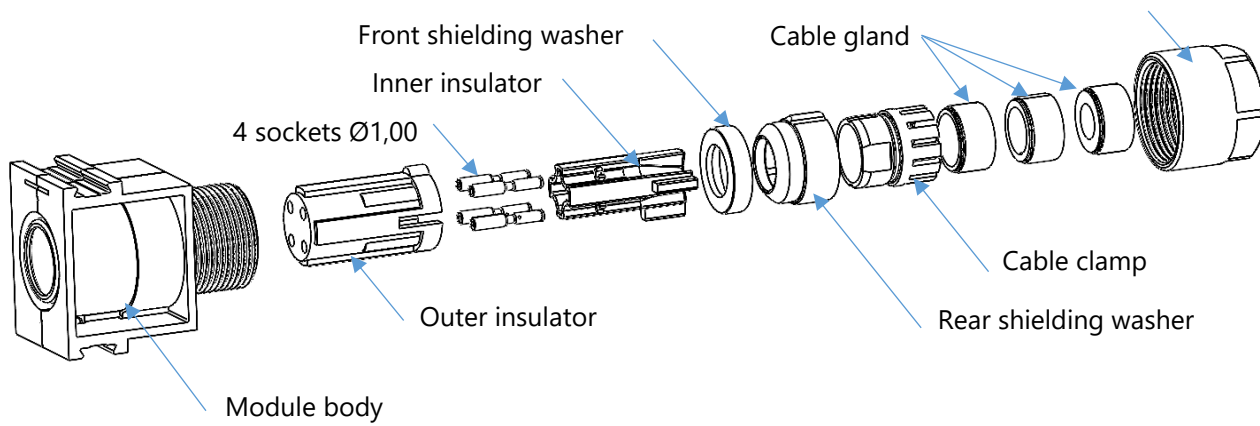
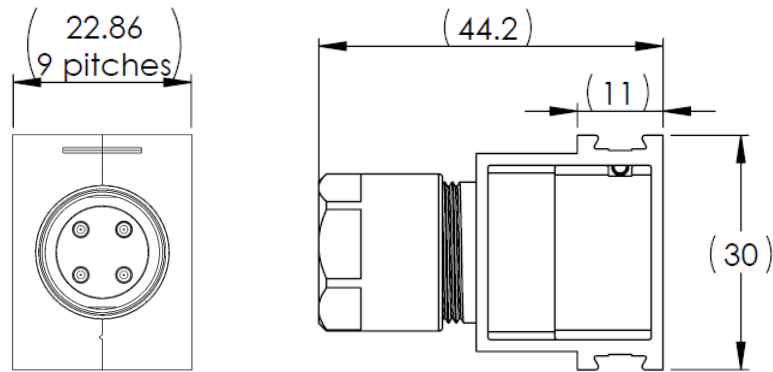
Insulator C
Module H
Plug side

Cat5e wiring instructions – Standard version - Overview H module

H--14X1120/21GAM/GDM - MALE MODULE Cat5e – STANDARD VERSION

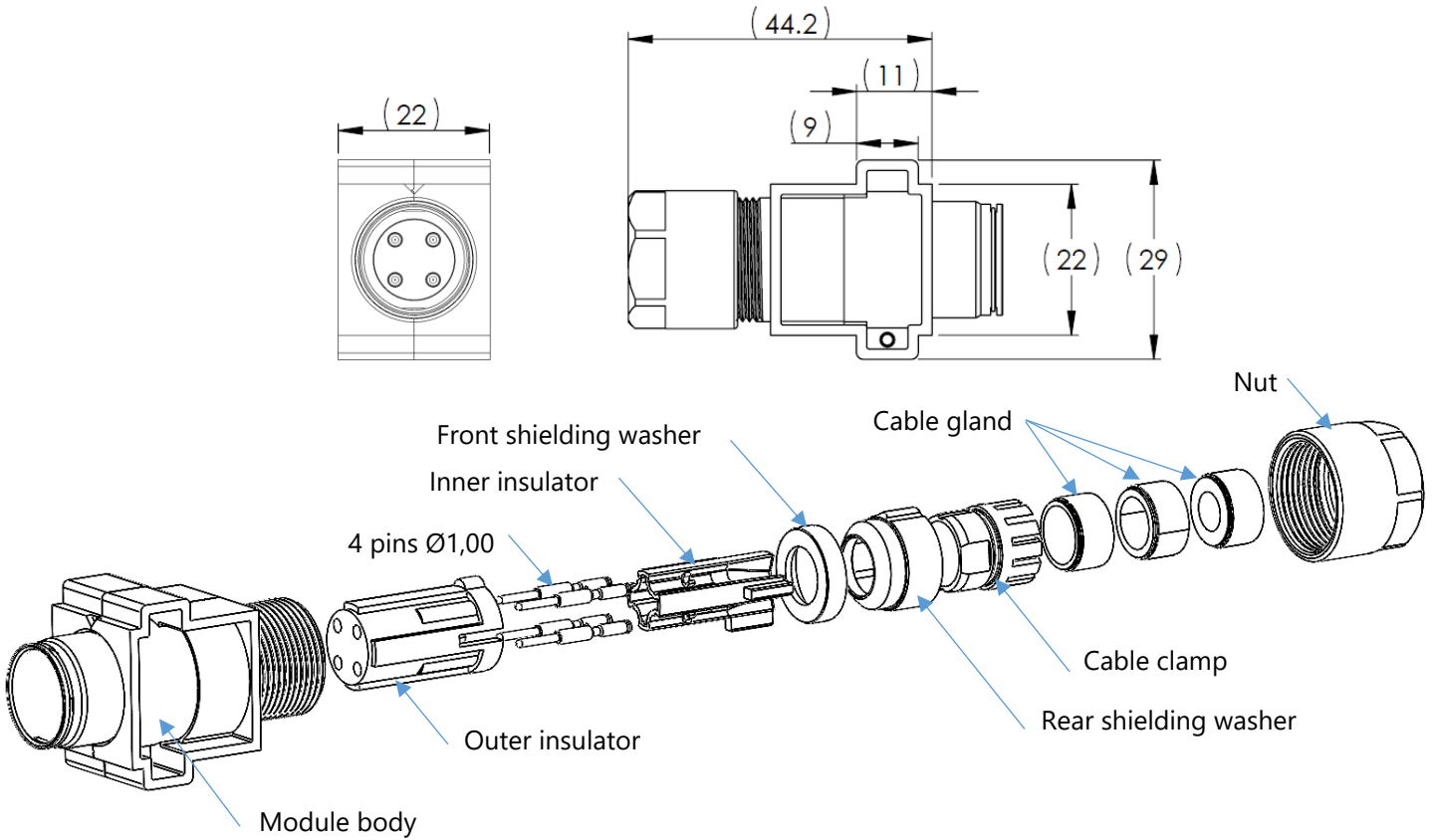


H--14X2020/21GAF/GDF - FEMALE MODULE Cat5e – STANDARD VERSION



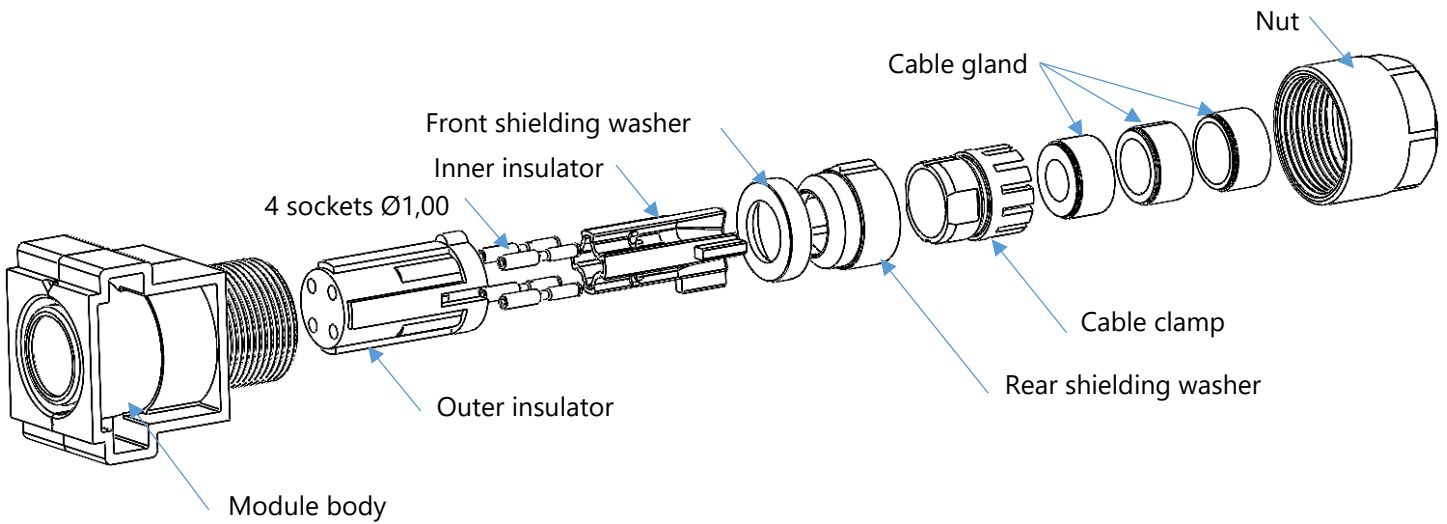
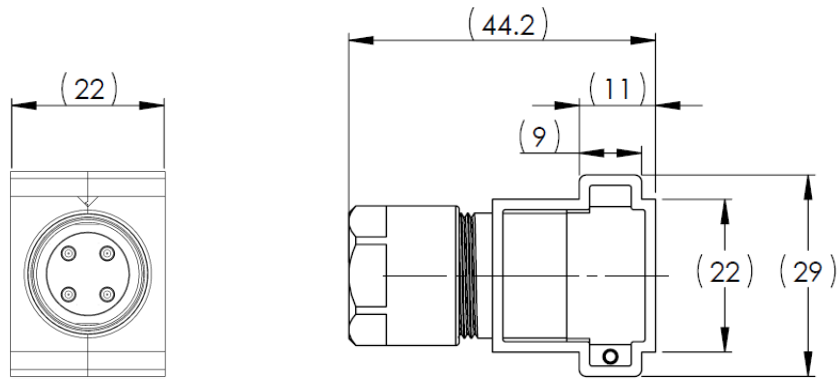
Cat5e wiring instructions – Standard version - Overview L module

MALE MODULE Cat5e : LC5EMR1SVTH (AWG 30-22) & LC5EMR2SVTH (AWG 24-18)

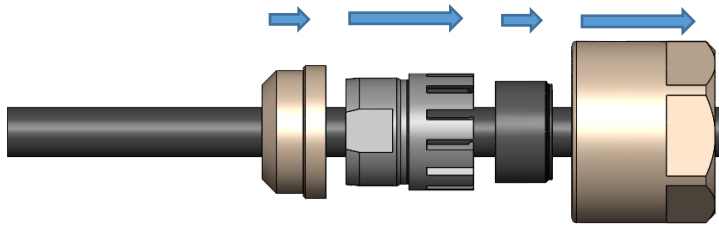


Cat5e wiring instructions – Standard version - Overview L module

FEMALE MODULE Cat5e : LC5EFR1SVTAH (AWG 30-22) & LC5EFR2SVTAH (AWG 24-18)

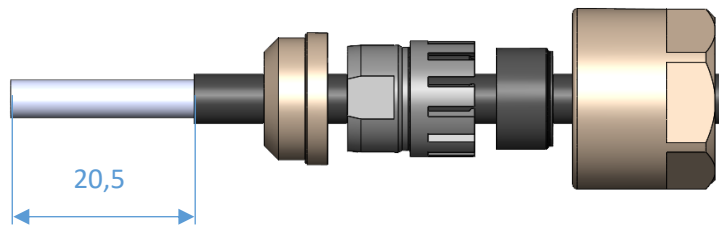
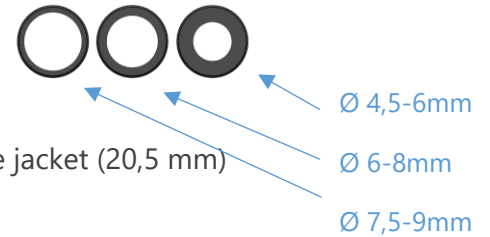


Cat5e wiring instructions – Standard version

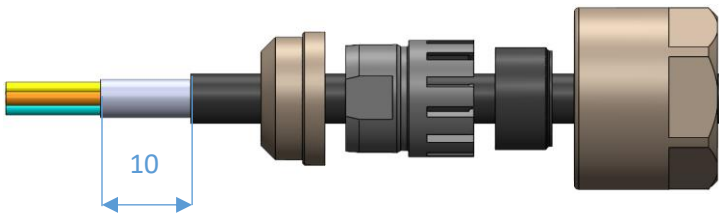


Slide the nut, the cable gland*, the cable clamp and the shielding rear washer on the cable.

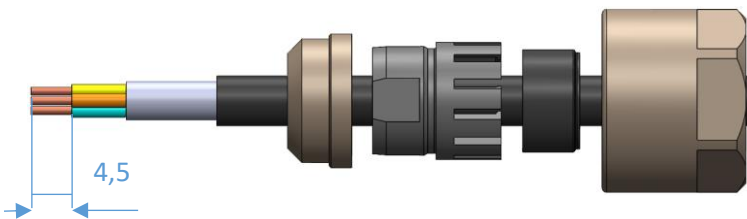
*Choose the appropriate size of cable gland based on the outer diameter of the cable.



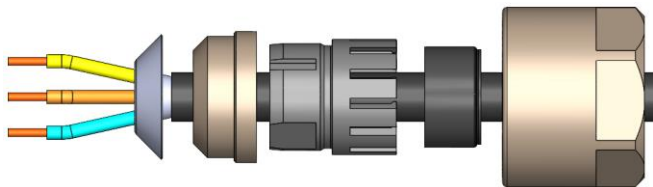
Strip the cable jacket (20,5 mm)



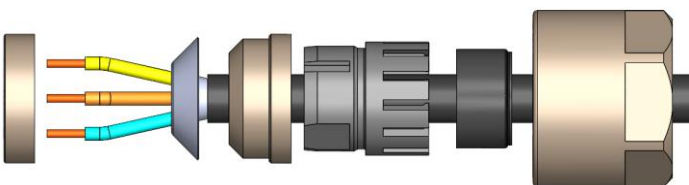
Cut the shielding braid (10 mm)



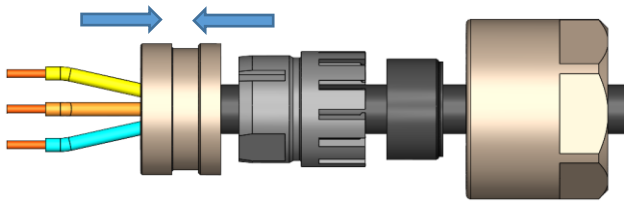
Strip the inner cables (4,5 mm)



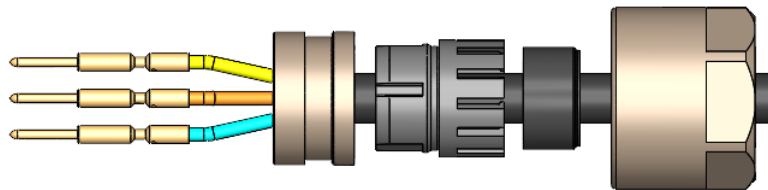
Curl the braid over the shielding rear washer.



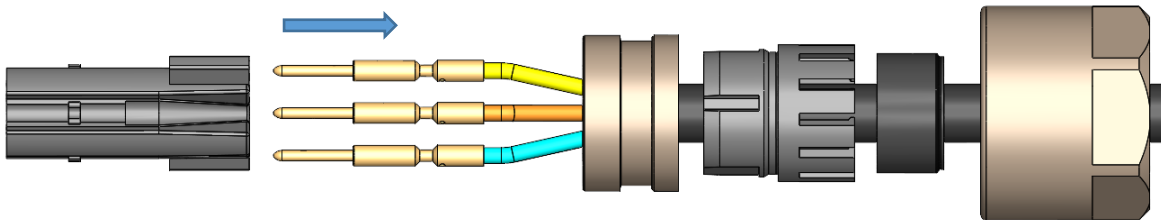
Slide the shielding front washer on the cable.



Place the 2 washers against each other and cut the excess braid.

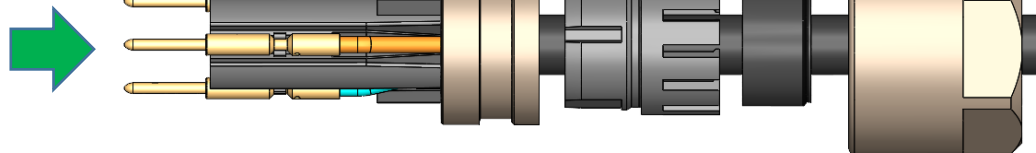
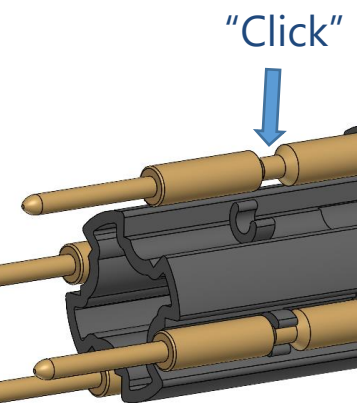


Crimp the contacts (pin or socket) on the cable.
Crimping tool: M22520/1-01 - AF8.
Positioner: B-153 and B-200.

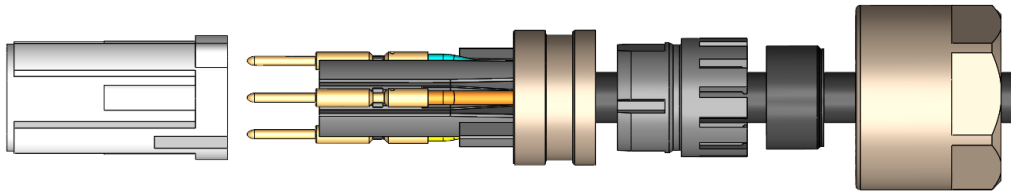


Slide the inner insulator.

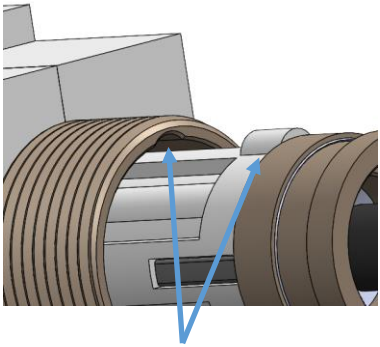
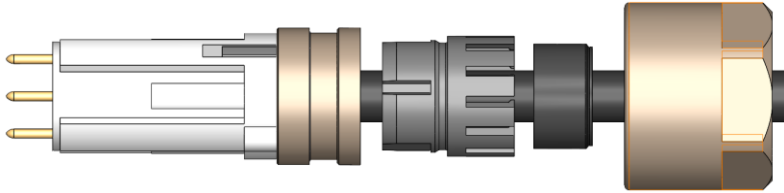
⚠ For a proper cabling see page 4.



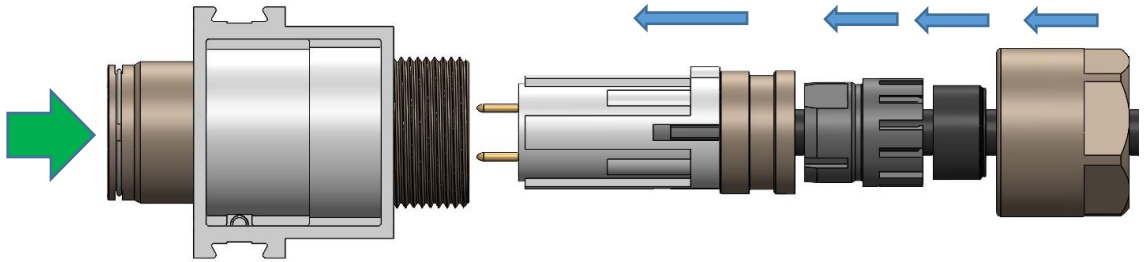
Clip the contacts on the insulator by the side.
(no tool needed)



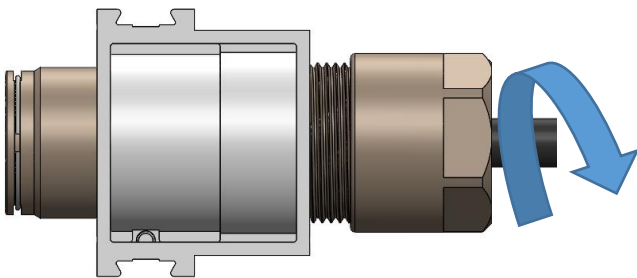
Slide the outer insulator.



Align the key with the slot



Align the key on the outer insulator with the slot on the body and slide the subassembly in the module H or L.



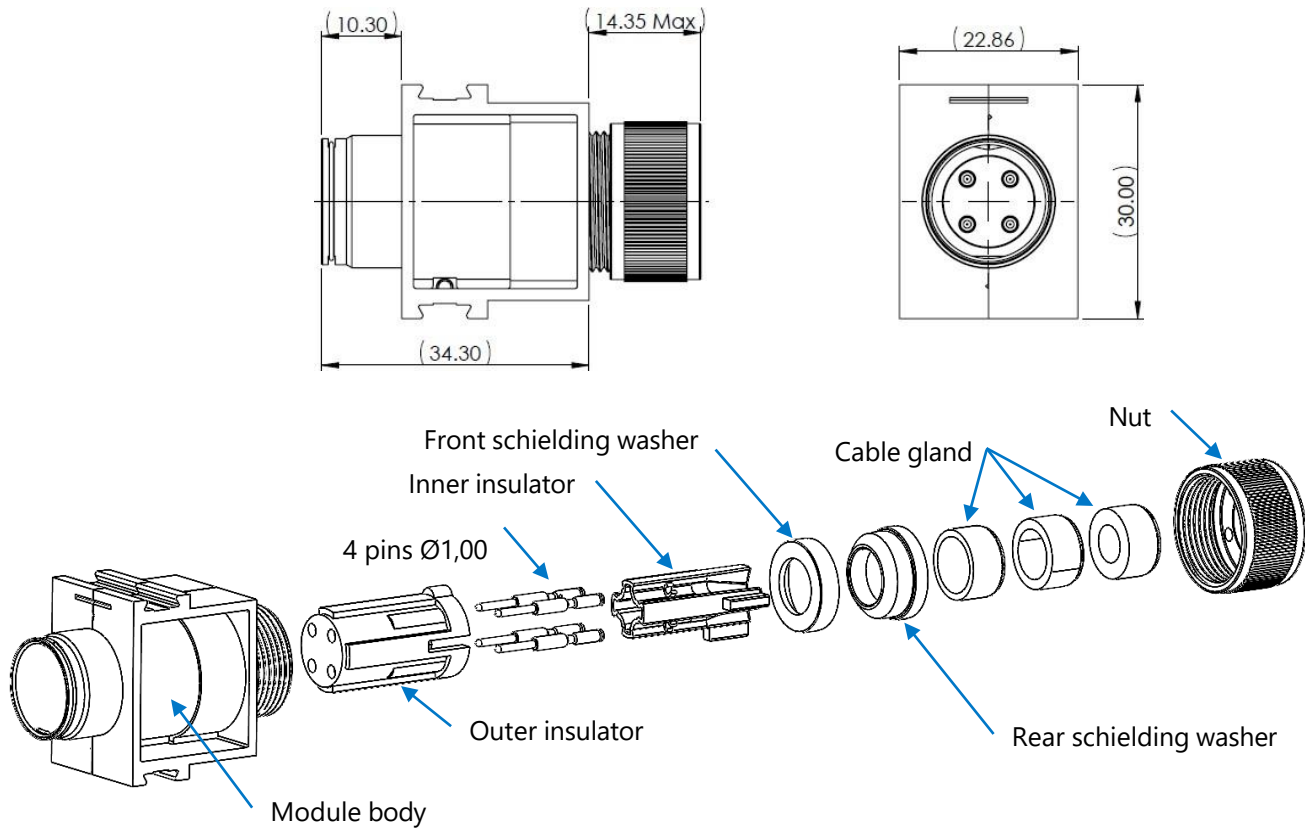
Screw the nut.



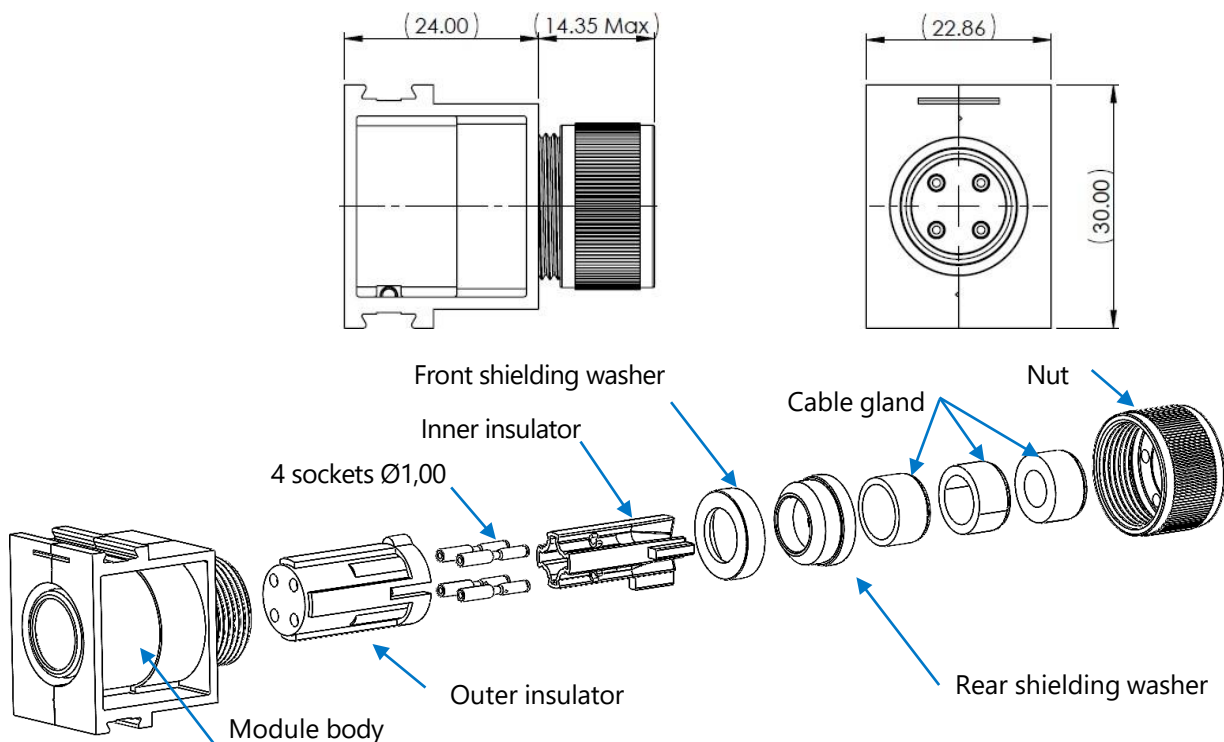
SW18 – 1N.m

Cat5e wiring instructions – Low profile - Overview H modules

MALE MODULE Cat5e : H--14X1120GDM (AWG 30-22) & H--14X1121GDM (AWG 24-18)

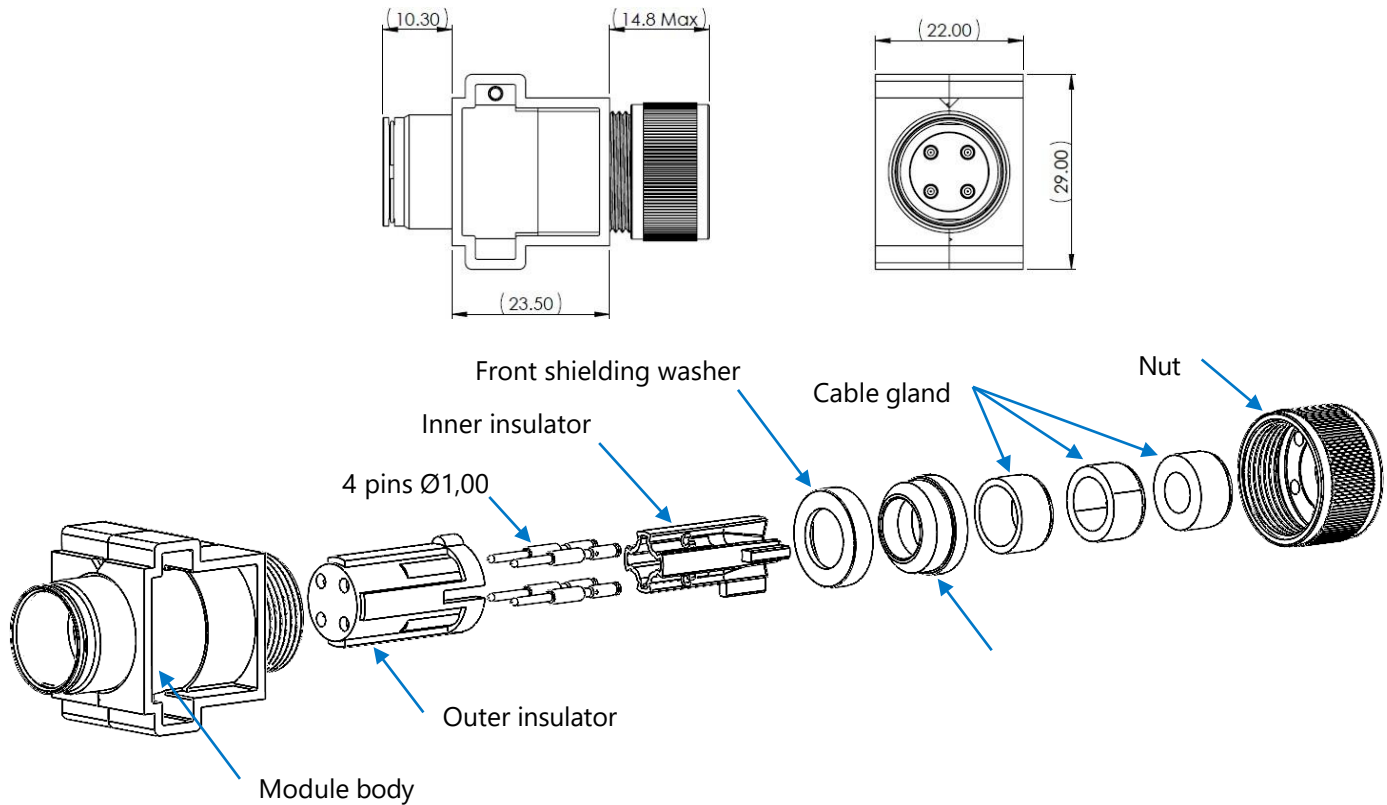


FEMALE MODULE Cat5e : H--14X2020GDF (AWG 30-22) & H--14X2021GDF (AWG 24-18)

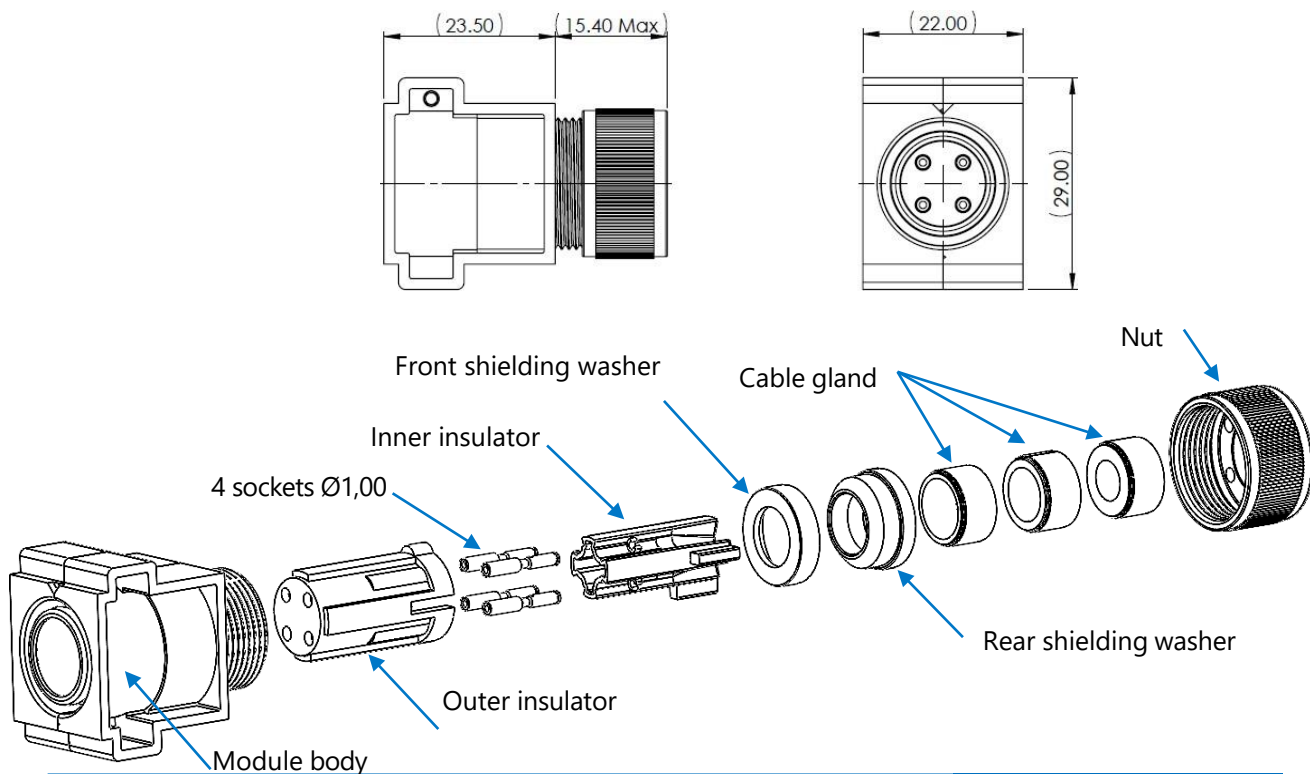


Cat5e wiring instructions – Low profile - Overview L modules

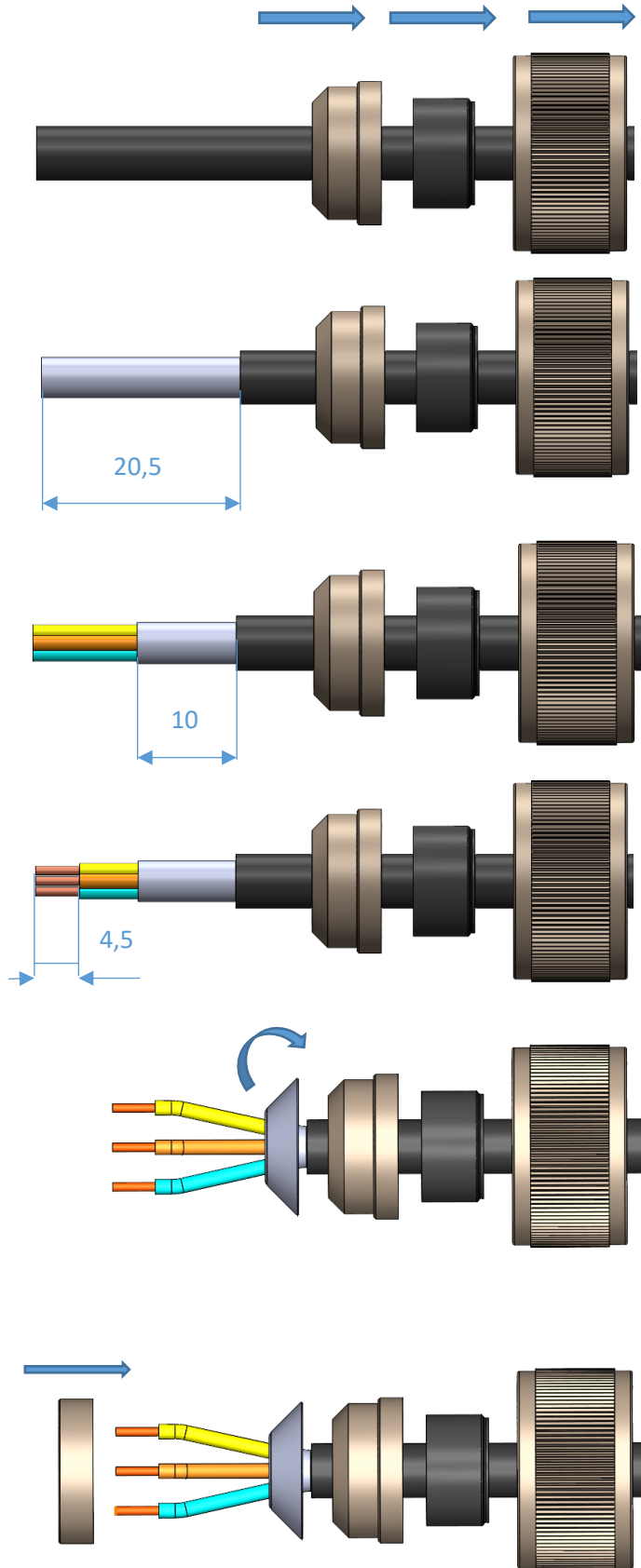
MALE MODULE Cat5e : LC5EMR1LPTH (AWG 30-22) & LC5EMR2LPTH (AWG 24-18)



FEMALE MODULE Cat5e : LC5EFR1LPTAH (AWG 30-22) & LC5EFR2LPTAH (AWG 24-18)

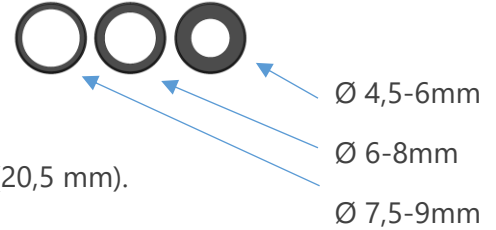


Cat5e wiring instructions – Low profile version



Slide the nut, the cable gland* and the shielding rear washer on the cable.

*Choose the appropriate size of cable gland based on the outer diameter of the cable.



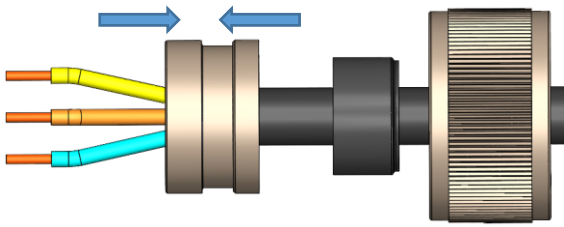
Strip the cable jacket (20,5 mm).

Cut the shielding braid (10 mm).

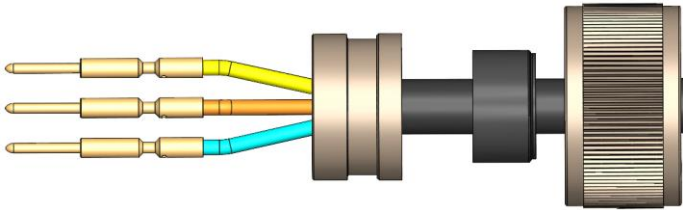
Strip the inner cables (4,5 mm).

Curl the braid over the shielding rear washer.

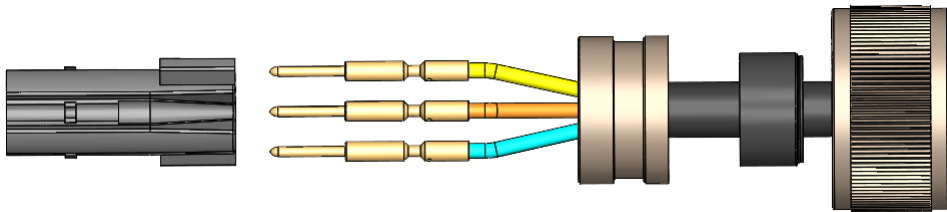
Slide the shielding front washer on the cable.



Place the 2 washers against each other and cut the excess braid.

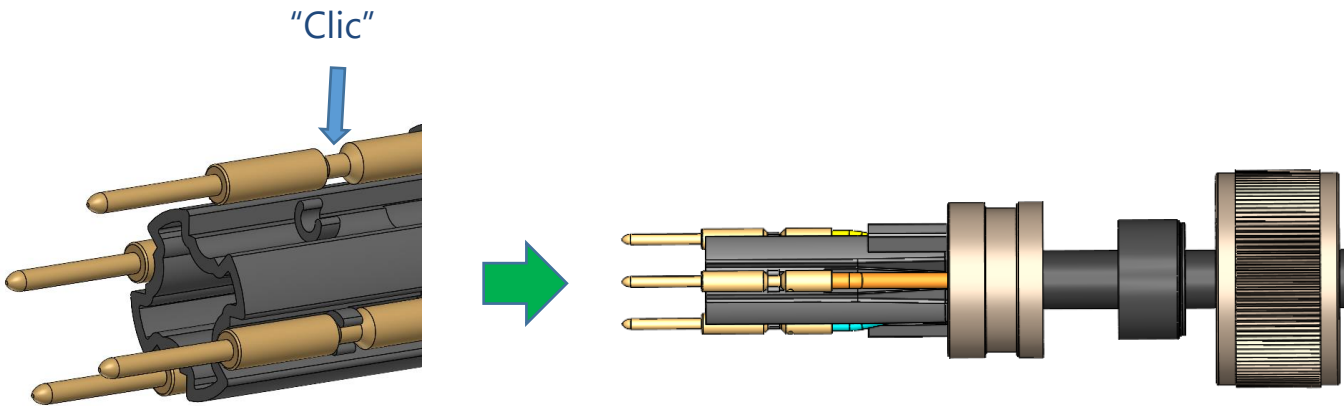


Crimp the contacts (pin or socket) on the cable.

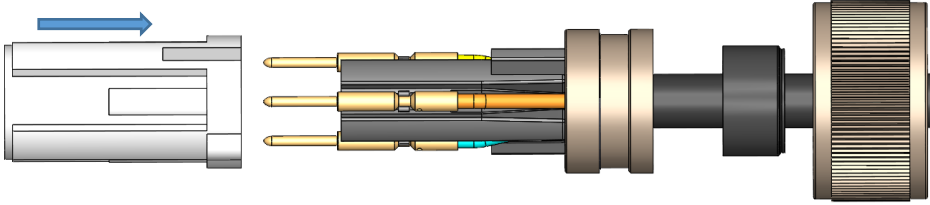


Slide the inner insulator.

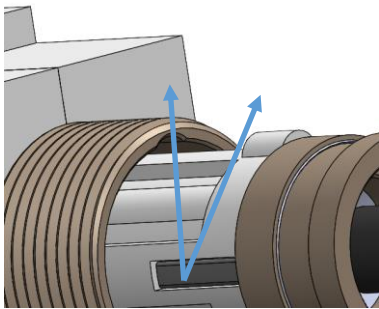
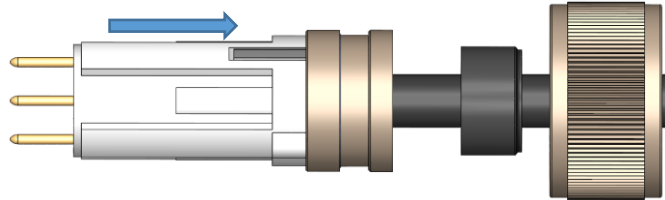
⚠ For a proper cabling see page 4.



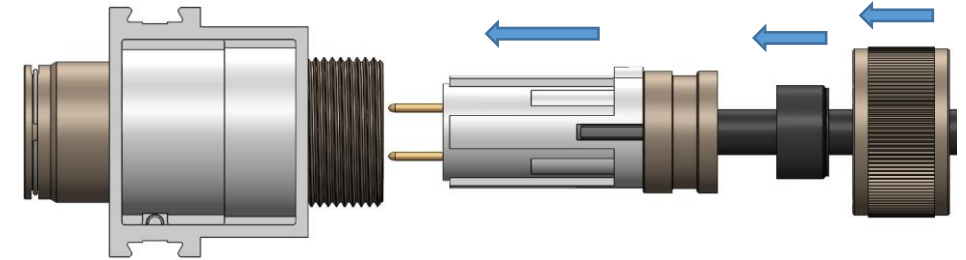
Clip the contacts on the insulator by the side.
(no tool needed)



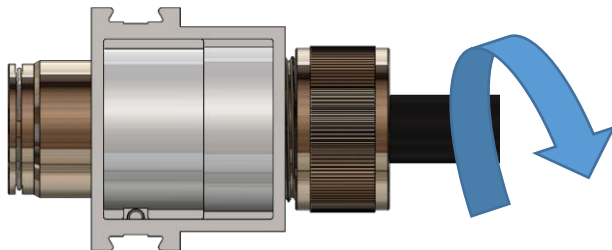
Slide the outer insulator.



Align the key with the slot



Align the key on the outer insulator with the slot on the body and slide the subassembly in the module H or L.



Screw the nut.