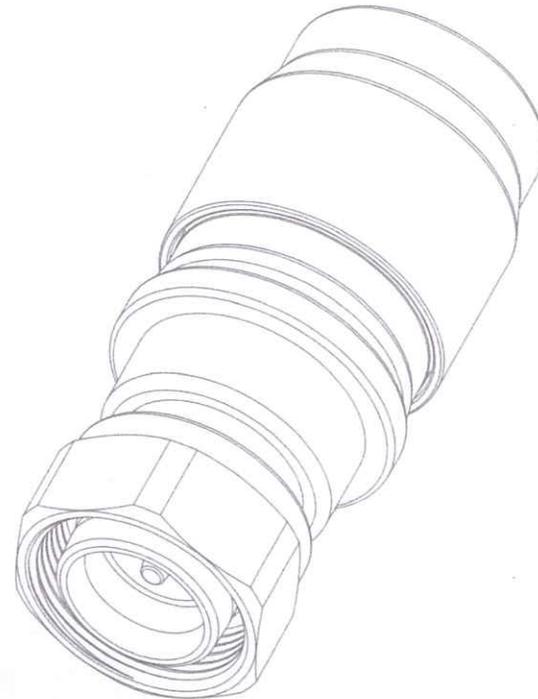


HPC

HPC Connector Introduction and Installation Tool Operation Manual



HPC Series Connectors ■

HPC Toolset List ■

HPC Tool Function Introduction ■

HPC Tool Operation Instructions ■



JIANGSU HENGXIN TECHNOLOGY CO.,LTD.

No.138 Taodu Road, Yixing city, Jiangsu Province, China, 214222
Service Hotline: 400-119-7777
Overseas mail: oversea@hengxin.com

HPC Series Connectors

P1-P2

HPC Toolset List

P3-P4

HPC Tool Function Introduction

P5-P10

HPC Tool Operation Instructions

P11-P18

Contents



KEEP CONNECTING

All HPC Connectors



HPC Toolset List



Tools list:

- | | | | | |
|----------------|----------------|-------------|---------------|-----------------|
| 1 Tool kit | 2 HX-HPC240-01 | 3 A01 | 4 Sling clasp | 5 B03 |
| 6 B02 | 7 B01 | 8 D01-12H&L | 9 C01-12L | 10 HX-HPC240-02 |
| 11 Spare blade | 12 Strap | 13 BX-78L | 14 BX-12H | 15 BX-12L |
| 16 Battery | 17 C02 | 18 D02 | 19 D01 | |



HX-HPC240-01
Hydraulic power equipment for Press-fit base of connectors



HX-HPC240-02
Battery and charging power supply for hydraulic power equipment



A01
Connector press-fit base



B01
Connector crimping module for N&4310&7/16F-1/2H&L



B02
Connector crimping module for All connectors-78L



B03
Connector crimping module for 716M&716MA&4310MA-12H&L



D01-12H&L
Connector Pressure clamp for 12H&L



BX-12L
1/2" inch Low loss cable stripping tool



BX-12H
1/2" inch superflexible cable stripping tool



BX-78L
7/8" inch Low loss cable stripping tool



C01-12L
1/2" inch Low loss cable insulation hollow drill



C02
Cable stripping handle



D01
Cable cutter



D02
Inner hexagon spanner

HPC Tool Function Introduction

Hydraulic power equipment

HX-HPC240-01

HPC Tool Press-fit Power Plant



Maximum output force:	50kN
Maximum displacement:	12mm
Contour dimension:	304*75*278(mm)
Hydraulic oil:	Shell Tellus S2V HV15 55ml
Environment temperature:	-10~40 C
Battery :	lithium battery
Charging source:	AC 100V~240V 50~60(Hz)
charging time:	Around 1 Hour

- | | |
|----------------------|------------------------------------|
| 1、 Battery : | Rechargeable lithium battery |
| 2、 Start button : | Start the motor and press-fit base |
| 3、 Release Button: | Reset Piston in case of tool error |
| 4、 LED Light: | Lighting, Alarming |
| 5、 Module interface: | Connect the press-fit base |

The Meaning of light signal and sound signal

	LED	Sound	Command	Meaning
1	● ●)))	Power on self-test	Self-check, system normal
2	● 5sec		Overload	Hydraulic System Failure May occur, should be checked immediately
3	● ● ● ● ●	● ● ● ● ●	Charging Reminder	Low charge, recommend to charge
4	● 5sec	● 5sec	Warning of power shortage	The battery power is exhausted and must be recharged immediately
5	● ● ● ● ●	● ● ● ● ●	Temperature alarm	Temperature is too high, needs to be cooled
6	● ● ● ● ●	● ● ● ● ●	No pressure	Motor running but no pressure
7	● 20sec		Lighting	Press Start, delay 20 seconds

Charging batteries



12L Cable stripping tool

BX-12L



Dimensions: 82*40*40(mm)
Adaptation cable: 1/2" inch low loss cable

12H Cable stripping tool

BX-12H



Dimensions: 100*40*40(mm)
Adaptation cable: 1/2" inch superflexible cable

78L Cable stripping tool

BX-78L



Dimensions: 85*48*48(mm)
Adaptation cable: 7/8" inch low loss cable

Attention



- 1- Customer should bring your own drill gun when using the stripping tools.
- 2- Insert the end of the stripping tools into the drill gun and rotate the swivel inward until it is tightened.
- 3- Adjust the rotation direction to clockwise, as shown on the left.
- 4- The wire stripping tools can also be manually stripped with the handle in the toolbox (see page 10 for details).

Pressure clamp

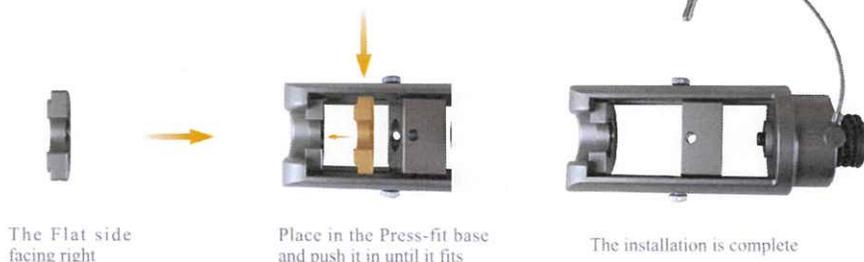


D01-12H&L

Place the Pressure clamp on the top of the Press-fit base to fix the connectors and cables (for 1/2" inch superflexible cable and 1/2" inch low loss cable)

Dimensions: 44*33*10(mm)

Adaptation model: B01 \ B03



The Flat side facing right

Place in the Press-fit base and push it in until it fits

The installation is complete

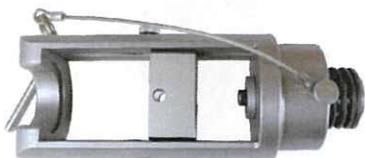
Press-fit base of connectors

A01

The Press-fit base of quick installation connectors is connected to the hydraulic gun and then installed into the crimping module to perform crimping installation of the connector.

Dimensions: 304*75*278(mm)

Adaptation model: B01 \ B02 \ B03



The Press-fit base is factory-default connected to the hydraulic gun.



If it is not necessary, do not disassemble it at will, so as not to cause oil gun leakage.

Crimp module 1

B01

The HPC tool crimping module (B01) can be used for crimp mounting of the N&4310&7 16-12H&L connectors after it is installed in the Press-fit base.

Dimensions: 67*44*37(mm)

Adaptation model: NM&NF&4310M&4310F&716F-12H&L



1-Crimp the crimp module into the Press-fit base.



4-Release the slider



2-Pull the spring slide to the far right and hold



5-Insert the retaining clip into the slider.



3-Insert the crimping module into the Press-fit base and place the protrusion of the crimping module into the recess of the slider.



6-Finished condition

Crimp module 2

B02

HPC tool crimping module (B02) for crimp mounting of all connectors-78 connectors after mounting in the Press-fit base

Dimensions: 75*44*37 (mm)

Adaptation model: NM&NF&4310M&4310F&716F-12H&L



1-Crimp the crimp module into the Press-fit base.



4-Release the slider



2-Take out the calmp, pull the spring slide to the far right and hold.



5-Insert the retaining clip into the slider.



3-Insert the crimping module into the Press-fit base and place the protrusion of the crimping module into the recess of the slider.



6-Finished condition

HPC Tool Function Introduction

Crimp module 3



B03

The HPC tool crimping module (B03) can be used for crimp mounting of the 716M&716MA&4310MA-12H&L connectors after it is installed in the Press-fit base.

Dimensions: 65*44*33mm

Adaptation model: 716M&716MA&4310MA-12H&L



1-Crimp the crimp module into the Press-fit base.



4-Release the slider



2-Pull the spring slide to the far right and hold



5-Insert the retaining clip into the slider.



3-Insert the crimping module into the Press-fit base and place the protrusion of the crimping module into the recess of the slider.



6-Finished condition

Cable insulation hollow drill



C01-12L

The cable insulation hollowing drill (C01-12L) is used to remove the insulation layer of the 1/2" inch low loss cable

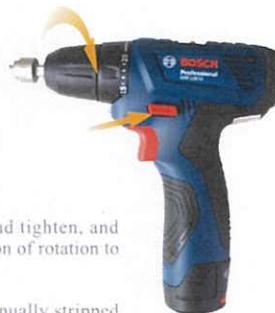
Dimensions: 50*20*20mm

Fit for 1/2" inch low loss cable



To use the Cable insulation hollow drill, customer should bring your own drill gun.

In the figure, we use the drill gun – (BOSCH GSR120-LI) to insert the end of the Cable insulation hollow drill into the drill gun.



Rotate inward and tighten, and adjust the direction of rotation to clockwise.

It also can be manually stripped with Cable stripping handle (C02) in the toolset (see page 10 for details).

Cable stripping handle



C02

Cable stripping handle

Dimensions: 79*24*41mm

Adaptation model: BX-12L/BX-12H/BX-78L/C01-12L



Spare blade



HPC Tool Spare blade for 78L cable stripper: Use the Inner hexagon spanner in the toolbox to remove the blade

Adaptation model: ① BX-12H&L ; ② BX-78H&L



Attention

It is recommended to wear protective glasses during stripping process to prevent eyes from debris splash.

HPC Connector Installation Instruction for 1/2" low loss cable



12L

4310M-KS12L
4310F-KS12L
716F-KS12L
NM-KS12L
NF-KS12L

4310MA-KS12L
716MA-KS12L
716M-KS12L

Tools preparation



BX-12L



C02



B01



B03



C01-12L



D01



D01-12H&L



A01

HX-HPC240-01



BOSCH drill gun



Make white mark on the cable peak

Straighten the cable(20~30cm), make white mark on the cable peak with Marking pen.



Cut off the cable

Use cable cutter(D01) to cut off the cable along the white mark.

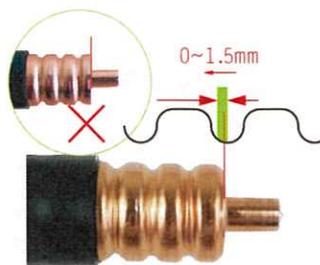
Attention, during the cutting process please rotate the cable cutter by circular motion until the cable is cut off to **ensure that the cable section is flat and free of deformation**.

(Further explanation: unflat or deformed cable section will affect the stripping operation.)



Stripping operation

Insert the 1/2" inch low loss cable stripping tool (BX-12L) into the drill gun or HPC tool handle (C02), then insert the 1/2" inch low loss cable into the tool for stripping operation.



Check the position of outer conductor end face after stripping

After stripping operation the position of outer conductor end face should be in the outer conductor valley as shown in the figure above. If the cable is not in the valley position, please put the cable into the stripping tool again for stripping operation until the position of the outer conductor end face is in the valley.

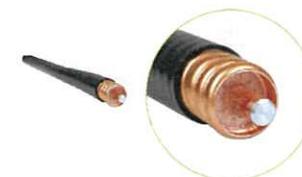
(Further explanation: After stripping operation, if the position of outer conductor end face is not in the outer conductor valley that will be very hard to push the cable into the connector.)



Remove the dielectric insulation foaming

Insert 1/2" inch low loss cable insulation hollow drill (C01-12L) into the gun drill or HPC tool handle (C02), then insert the inner conductor of the cable into the hole in the middle of the hollow drill and start the gun drill to pull out the cable insulation.

Attention, please don't operate it for a long time to avoid damage to the inner and outer conductors of the cable.



Clearing the dielectric insulation foaming

Use auxiliary tools to clean insulation waste and copper scraps. **The insulating layer is not allowed to adhere to the outer conductor surface**, and the inner conductor surface is allowed to have some insulation.

HPC Tool Operation Instructions



Make white mark

Align outer conductor as shown with end of connector cap. Mark the white line on cable jacket (use pen or marker) with the position of the connector end.



Push and twist the connector onto cable until it reaches the cable mark. The installer will hear two "clicks" during this process.



B01



B03

Install the connector crimping module

Insert the connector pressure clamp (D01-12H&L) and crimping module (B01 or B03) into the connector press-fit base (A01) (see P7-P8 for the operation method)

Please note: the crimping module (B01) is for N&4310&7/16F-1/2H&L; the crimping module (B03) is for 7/16M&7/16MA&4310MA-1/2H&L.



Install the connector

Pull/push back the insert to allow connector/cable to lay flat in frame, make sure connector is fully seated. Press Hydraulic power equipment until gun cycles.



Installation complete

HPC Connector Installation Instruction for 1/2" superflexible cable



12H

4310M-KS12H
4310F-KS12H
716F-KS12H
NM-KS12H
NF-KS12H

4310MA-KS12H
716MA-KS12H
716M-KS12H

Tools preparation



BX-12H



C02



B01



B03



D01



D01-12H&L



A01



BOSCH drill gun

HX-HPC240-01

HPC Tool Operation Instructions



Cut off the cable

Straighten the cable(20~30cm), use cable cutter(D01) to cut off the cable.

Attention, during the cutting process please rotate the cable cutter by circular motion until the cable is cut off to **ensure that the cable section is flat and free of deformation**.

(Further explanation: unflat or deformed cable section will affect the stripping operation)



Stripping operation

Insert the 1/2" inch superflexible cable stripping tool (BX-12H) into the drill gun or HPC tool handle (C02), then insert the 1/2" inch superflexible cable into the tool for stripping operation.



Make white mark

Align outer conductor as shown with end of connector cap. Mark the white line on cable jacket (use pen or marker) with the position of the connector end.



Twist the connector clockwise onto cable until it does not rotate or reaches the cable mark.



Install the connector crimping module

Insert the connector pressure clamp (D01-12H&L) and crimping module (B01 or B03) into the connector press-fit base (A01) (see P7~P8 for the operation method) Please note, the crimping module (B01) is for N&4310&7/16F-1/2H&L.

the crimping module (B03) is for 7/16M&7/16MA&4310MA-1/2H&L.



Install the connector

Pull/push back the insert to allow connector/cable to lay flat in frame, make sure connector is fully seated. Press Hydraulic power equipment until gun cycles.



Installation complete

HPC Connector Installation Instruction for 7/8" low loss cable



78L

4310M-KS78L

716F-KS78L

4310F-KS78L

NM-KS78L

716M-KS78L

NF-KS78L

Tools preparation



BX-78L



C02



B02



D01



A01

HX-HPC240-01



BOSCH drill gun



Utility knife

HPC Tool Operation Instructions



Cut off the cable

Straighten the cable(20-30cm), use cable cutter(D01) to cut off the cable.

Attention, during the cutting process please rotate the cable cutter by circular motion until the cable is cut off to **ensure that the cable section is flat and free of deformation**.

(Further explanation: unflat or deformed cable section will affect the stripping operation)



Prepare the stripping tool

Insert the 7/8" inch RF cable stripping tool (BX-78L) into the drill gun or the cable stripping handle (C02), then insert the 7/8" inch RF cable into the tool for stripping operation.



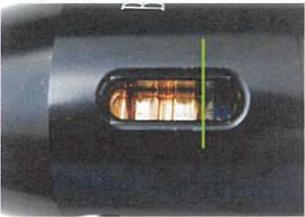
Stripping

Push the 7/8" stripping tool hole into the cable, adjust the drill gun speed to the slow gear, and start the drill gun button to strip the cable.



During the stripping process, the operator needs to stop and check the stripping position frequently. (The stripping position can be viewed through the observation hole).

When the cable end face is located at the outer conductor trough of the cable, do not apply thrust to the stripping tool any more, and a few turns are rotated at the stop position to cut off the copper scrap. Then remove the stripping tool.



During the stripping process, debris maybe thrown out of the hole. Be careful not to get close when viewing. Keep the distance. It is recommended to wear protective glasses.

After the cable is stripped, check the outer conductor for scratch damage. If it is, you need to strip the cable again.



Make white mark

Align outer conductor as shown with end of connector cap. Mark the white line on cable jacket (use pen or marker) with the position of the connector end.



Push and twist the connector onto cable until it reaches the cable mark. The installer will hear two "clicks" during this process.



Install the connector crimping module

Insert the crimping module (B02) into the connector press-fit base (A01) (see P7-P8 for the operation method)



Install the connector

Pull/push back the insert to allow connector/cable to lay flat in frame, make sure connector is fully seated. Press Hydraulic power equipment until gun cycles.



Installation complete.

