

- Technical requirements:
1. The harness wire adopts the German standard FLAT-B standard wire, with a temperature resistance of -40°C to 105°C.
 2. Function and wire harness through-hole identification adopts laser engraving or yellow marking (special color refer to online instructions), font wear-resistant and clear and reliable.
 3. The outside of the harness is protected by a black LPA super flat closed corrugated pipe, and the flame retardant characteristics of the corrugated pipe meet the V-0 grade specified in QJ7 2006, with a temperature range of -40°C to 125°C. Special requirements refer to Article 14 of these technical requirements.
 4. The tail of the connector is protected by a tail clip or heat shrink tube.
 5. The correct rate of conductor conduction is 100%, and the blank space of the waterproof connector needs to be blocked with a blind plug.
 6. The connection points of the wires should be dispersed and not concentrated, and the connection points should be welded using an ultrasonic welding machine, with an outer double-wall heat shrink tube for protection.
 7. For the use of glass casing in the diagram, use a suitable black casing.
 8. The wire number is printed every 35 mm using a marking machine, and the wire number is clear and reliable.
 9. All CAN lines are shielded twisted pairs, with a wire diameter of 0.5mm², and the splice point uses a splice terminal for crimping. When crimping or splicing, the length of the peeled-off rubber of the shielded twisted pair should not exceed 10mm, and the shielding layer should be grounded at the nearest controller/sensor terminal with a fixed pin without special instructions. The shielding layer must be heat-shrink wrapped all the way, and no copper wire should be exposed.
 10. The harness meets the requirements of QJ7 2006-2014.
 11. Permanent waterproof labels are pasted at the main connector of the harness, including the harness number, name, version number, production date, supplier information, etc.
 12. Without special instructions, the view direction is based on the following figure (when the pin number of the connector is not consistent with the view, the view direction is the standard).
 13. The requirements for the related wire are as shown in the figure below, but the related wire should conform to the content specified in section 4.2.3 of QJ72006-2014.

14. Refer to the following for wire harness protection:
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| I Paper-type PVC tape | V High-temperature glass fiber sleeve |
| II PP open-ended corrugated pipe | VI Aluminum foil tape completely wrapped |
| III Self-welding heat-shrink sleeve | VII Aluminum foil sleeve |
| IV PVC sleeve | VIII Nylon braided sleeve |
| V All wrapped with duct tape | IX Silk sleeve |

15. The requirements for the self-welding textile sleeve wrapping are as follows: the overlap rate should not be less than 20%, the external wrapping should be wrapped with cloth tape, the distance should not be greater than 10mm, and the number of overlaps should be at least 2 layers.
16. The SC series cold-press terminal adopts a closed cold-press terminal without a twisting hole structure.
17. The filling rate of the wire harness before is more than 80%, and the branches that cannot meet the requirements need to be wrapped with tape on the wire inside the hollow for full protection.

