



by ERICH JAEGER

TECHnote

7P/12V 100% Watertight WEATHERLOCK™ Connectors - SAE J560 - with FIBERCORE™

It is our business to find optimum and safe solutions for various needs in the area of connectors and wires. For the truck and trailer connector market (SAE J560) and also for agricultural technology, we have an all-new solution with outstanding features for our customers. In comparison with existing product designs, we are able to enhance the application in terms of:



Reliability

- Contacts feature individual wire-seals to ensure water-tightness to IPX9K
- Cover and mounting flange have seals for water tightness to IP54, addition of corrugated tube
- Premium cover seal and unique central-load spring ensures water tightness (IPX4) when plug is not connected
- Plated contacts and active face seal prevent corrosive damage to contacts when plug is connected
- Flange seal is available to prevent water ingress between the socket and the vehicle or nose box
- Stainless steel mounting bolt bushings allow higher tightening torque



Maintenance

- Modular design for easy repair or replacement
- Harness connector secured to socket housing with secondary locking feature
- 7-pin sockets and harness connector housings are labeled and color coded
 - Green = SAE J560 Primary
 - Yellow = SAE J560 Auxiliary
- Custom cover lettering available
- 90° or straight back-shell cover is easily removed and replaced for service and repair



Lower Cost

- No preattached expensive jacketed cable
- No over-mold tooling, process, and materials
- Increased flexibility of harness supplier selection
- Production process for harness maker is commonized with all other vehicle component harnesses
- Contact crimping and insertion can be performed by any harness manufacturer
- Lower weight contributes to lower operating costs

Highlights

- Exceeds all SAE requirements
- 100% Watertight WEATHERLOCK™ technology (IPX9K)
- Socket housing with reception of contact insert and securing bracket
- Contact insert with terminal position assurance (TPA)
- Socket housing using FIBERCORE™ with metal bushings
- Cable outlet as fold cover with latch (can only be closed if TPA is locked)
- Works best from -40°F to 185°F (-40°C to 85°C)
- 90° cable outlet for small installation spaces



SCAN to WATCH



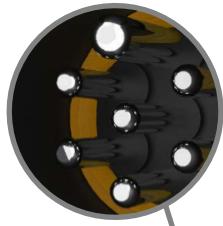


by ERICH JAEGER

TECHnote

7P/12V 100% Waterproof WEATHERLOCK™ Connectors - SAE J560

Socket housing with seal on bottom of SAE J560 connection



Socket housing with metal bushings



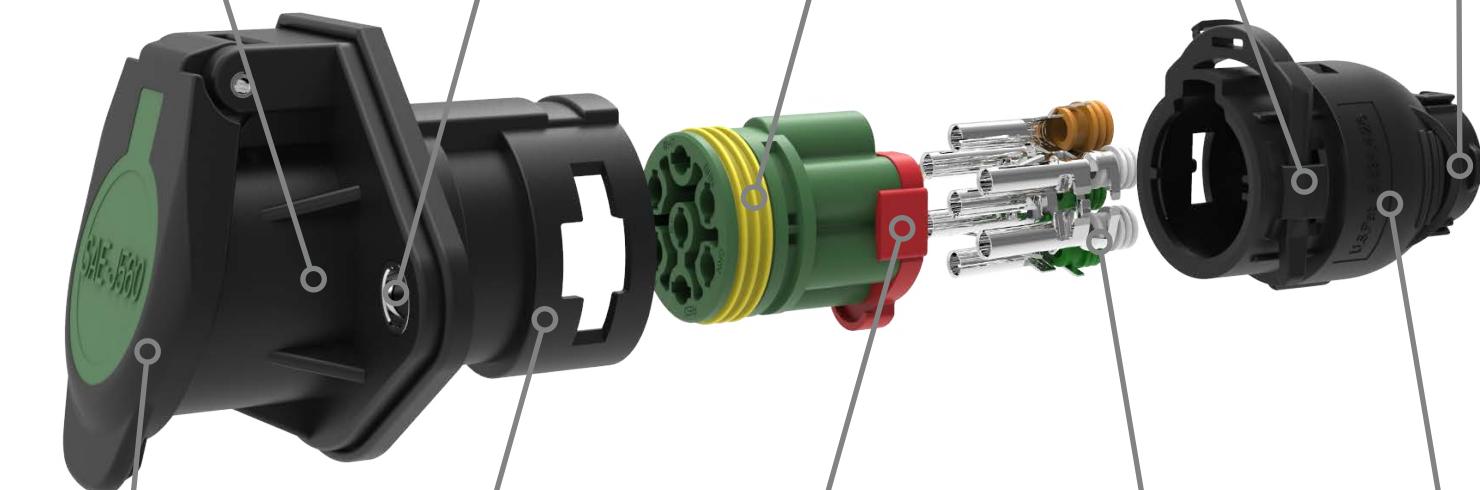
Separate contact housing with integrated circumference seal ensure highest water protection



Cable outlet as fold cover with latching hook and fixed securing bracket



Cable outlet for corrugated tube



Socket housing with seal in cover



Socket housing with reception of contact insert and securing bracket



Contact insert with terminal position assurance (TPA)



Crimp contacts with single wire seals ensure highest water protection



Available as 180° and 90° cable outlet (90° version for small installation spaces)



by ERICH JAEGER

TECHnote

Model Versions



7P/12V EXPERT watertight socket - SAE J560 Primary

Part No.
101390

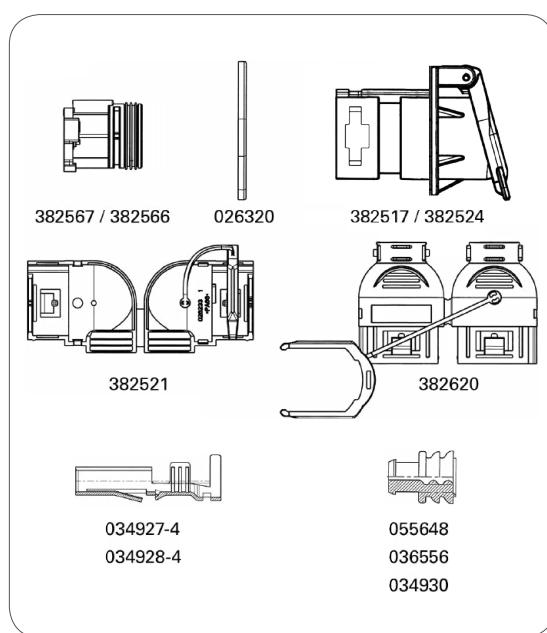
Set with nickel plated crimp contacts, contact insert, seal and cable outlet (180° and 90°) for corrugated tube NW17



7P/12V EXPERT watertight socket - SAE J560 Auxiliary

101391

Set with nickel plated crimp contacts, contact insert, seal and cable outlet (180° and 90°) for corrugated tube NW17



7P/12V EXPERT socket housing - SAE J560 Primary

382517

7P/12V EXPERT socket housing - SAE J560 Auxiliary

382524

Contact insert - Primary

382567

Contact insert - Auxiliary

382566

Cable outlet 180°, for corrugated tube NW17

382620

Cable outlet 90°, for corrugated tube NW17

382521

Seal

026230

Crimp contact socket

12-10 AWG

034927-4

8 AWG

034928-4

Single wire seal

12 AWG

055648

10 AWG

036556

8 AWG

034930



by  ERICH JAEGER

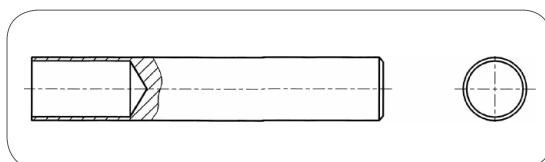
TECHnote

Model Versions



Hand crimping tool for crimp contacts and single wire seals (8, 10, 12 AWG)

Part No.
361065



Contact ejector bush

026321



7P/12V EXPERTECH™ cable with DURACORE™ plugs- SAE J560 Primary green cable (4x 3.0mm² + 2x 5.0mm² + 1x 8.0mm²)

Cable length	Packaging	
12,5ft	PE bag	611264
12,5ft	no	611243
13,0ft	PE bag	611263
13,0ft	no	611259
14,3ft	PE bag	611262
14,3ft	no	611244
18,0ft	PE bag	611261
18,0ft	no	611231



7P/12V EXPERTECH™ coil with DURACORE™ plugs - SAE J560 Primary green cable (4x 3.0mm² + 2x 5.0mm² + 1x 8.0mm²), coil diameter: 100mm

Working length	Max. extension length	Packaging	
3.5m / 12ft	4.5m / 14ft 9in	PE bag	611268
3.5m / 12ft	4.5m / 14ft 9in	no	611222
4.5m / 15ft	5.0m / 18ft	PE bag	611267
4.5m / 15ft	5.0m / 18ft	no	611224



7P/12V EXPERTECH™ coil with DURACORE™ plugs - SAE J560 Auxiliary yellow cable (4x 3.0mm² + 2x 5.0mm² + 1x 8.0mm²), coil diameter: 100mm

Working length	Max. extension length	Packaging	
3.5m / 12ft	4.5m / 14ft 9in	PE bag	611266
3.5m / 12ft	4.5m / 14ft 9in	no	611223
4.5m / 15ft	5.0m / 18ft	PE bag	611265
4.5m / 15ft	5.0m / 18ft	no	611225