



by ERICH JAEGER

TECHnote

7P/12V Metal Connectors - SAE J560 (Primary)

It is our business to find optimum and safe solutions for various needs in the area of connectors and wires. For the North American and Asia Pacific truck and trailer connector market (SAE J560) and also for agricultural technology, we have already developed our EXPERT range of trailer connectors. Now we are additionally offering 7-pin 12V metal connectors, which are built to last and to withstand the harshest environmental conditions. Our extremely sturdy trailer connectors feature the following characteristics:



Reliability

- Designed to withstand a minimum of 5,000 mating cycles
- Jumper cable with a capacity of 40A max.
- High durability thanks to heavy-duty zinc alloy housing and solid brass terminals (nickel-plated)
- Thread locker screws provide for optimal wire retention thus ensuring a reliable connection even if the wires are under strain
- Spring and hinge pin made from stainless steel to guarantee a long lifetime of the connectors even under the most demanding conditions



Maintenance

- Modular design including standard housing gasket allows for easy repair or replacement
- Installation and connection processes conform to established products so no process changes are necessary - just „Plug & Play“
- 4x 12, 2x 10 and 1x 8 AWG provides for flexibility in installation and application
- Elongated two-hole mounting enables easy installation
- Tools and installation instructions available on request



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
- Lower weight contributes to lower operating costs

Highlights

- Heavy-duty electrical connectors for longest life time even under harsh environmental conditions
- Big ergonomically designed grip lugs on the plug ensure easy handling for thousands of mating cycles
- Locking feature for cable plug includes auto disconnect to prevent connection from being damaged when left plugged-in unintentionally
- Grommet boot available for added protection featuring 180° or 90° cable outlet
- Socket can be individualized with customer branding
- Works best from -40°F to 185°F (-40°C to 85°C)



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Model Versions

Part No.



7P/12V metal socket according to SAE J560 (Primary)
with screw contacts, housing material: Heavy-duty Zinc alloy

without packaging

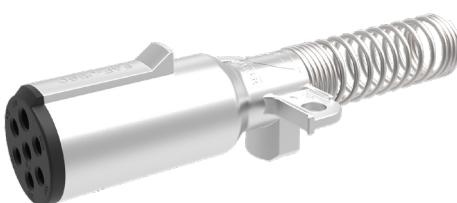
Retail Packaging / PE bag including gasket seal (part no. 035082)

Retail Packaging / PE bag including 180° grommet (part no. 037915)

101388

101387

101428



7P/12V metal plug according to SAE J560 (Primary)
with screw contacts, housing material: Heavy-duty Zinc alloy
4x 12, 2x 10 and 1x 8 AWG cable capacity

Retail Packaging / PE bag

201223

Additional Parts



7P/12V socket insert according to SAE J560 (Primary)
Nickel-plated brass terminals, with screw contacts

Retail Packaging / PE bag

without packaging

383315

383144



7P/12V plug insert according to SAE J560 (Primary)
Nickel-plated brass terminals, with screw contacts

Retail Packaging / PE bag

without packaging

383316

383148

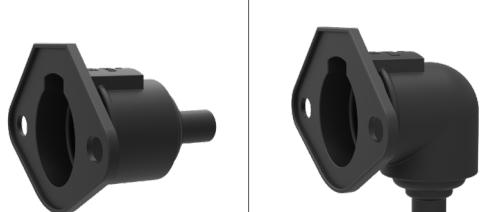


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Additional Parts

		Part No.
	Gasket seal Material: TPE	035082
	Grommet boot Material: EPDM 180° Version for cable diameter 7 mm – 9,5 mm 90° Version for cable diameter 10 mm – 12,5 mm 90° Version for cable diameter 17 mm – 21 mm	037915 037828 037829

Fitting Cables and Coils

	7P/12V cable - SAE J560 Primary green cable 1x 8 + 2x 10 + 4x 12 AWG (1x 8.0mm ² + 2x 5.0mm ² + 4x 3.0mm ²)	
	Cable length	Packaging
	12,5ft (3.8m)	Bulk Packaging
	13,0ft (3.95m)	Bulk Packaging
	14,3ft (4.35m)	Bulk Packaging
	18,0ft (5.5m)	Bulk Packaging
	7P/12V coil - SAE J560 Primary, green cable, coil diameter: 100mm 1x 8 + 2x 10 + 4x 12 AWG (1x 8.0mm ² + 2x 5.0mm ² + 4x 3.0mm ²)	
	Working length	Max. extension length
	12ft (3.5m)	15ft (4.5m)
	15ft (4.5m)	18ft (5.5m)
		Packaging
		Bulk Packaging
		Bulk Packaging



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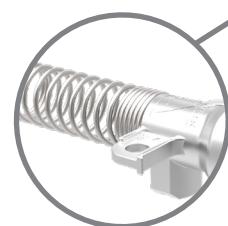
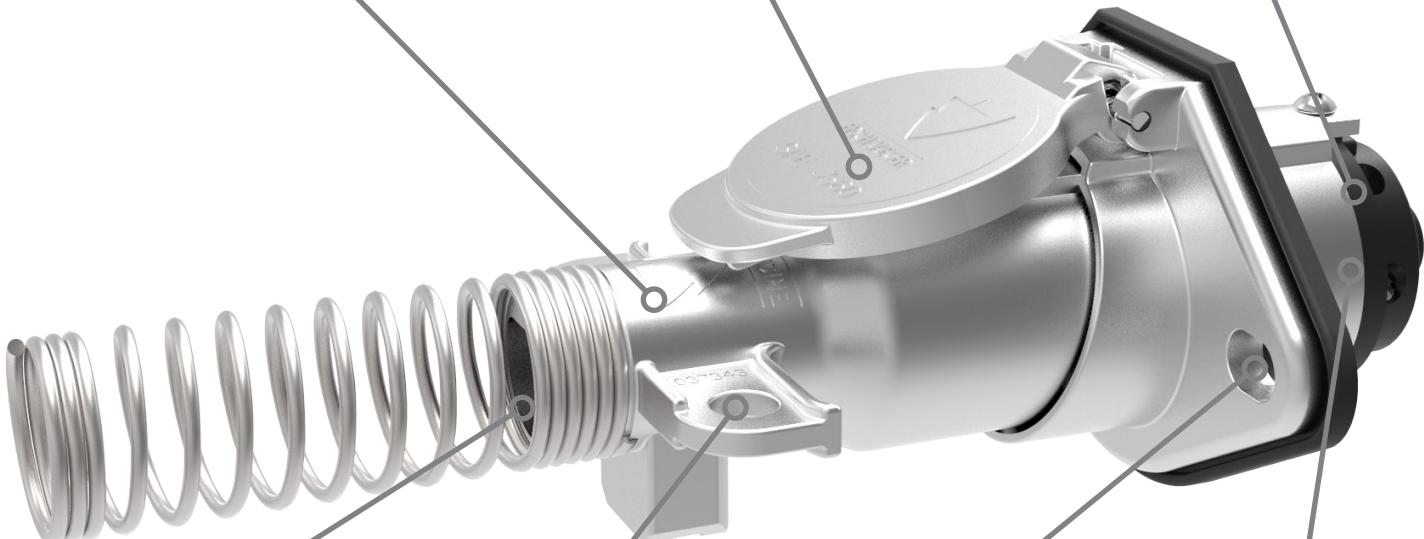
High durability thanks to heavy-duty zinc alloy housing



Customer branding available for socket cover



Optimal wire retention thanks to thread locker screws in the contact insert



Stainless steel spring and hinge pin guarantee long product life



Easy handling thanks to ergonomically designed grip lugs



Easy installation thanks to elongated two-hole mounting



Available with 180° and 90° cable outlet