



SURFACE VEHICLE STANDARD	J2691™	JUL2025
	Issued 2013-04 Revised 2020-02 Stabilized 2025-07	
	Superseding J2691 FEB2020	
15 Pole Connector Between Towing Vehicles and Trailers with 12 Volt Nominal Supply		

RATIONALE

This Technical Report is Stabilized because the technical committee cannot find users for the technical report.

STABILIZED NOTICE

This document has been declared "STABILIZED" by SAE Truck and Bus Electrical Systems Committee and will no longer be subjected to periodic reviews for currency. Users are responsible for verifying references and continued suitability of technical requirements. Newer technology may exist.

SAE Executive Standards Committee Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user."

SAE reviews each technical report at least every five years at which time it may be revised, reaffirmed, stabilized, or cancelled. SAE invites your written comments and suggestions.

Copyright © 2025 SAE International

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, or used for text and data mining, AI training, or similar technologies, without the prior written permission of SAE.

TO PLACE A DOCUMENT ORDER: Tel: 877-606-7323 (inside USA and Canada)
Tel: +1 724-776-4970 (outside USA)
Fax: 724-776-0790
Email: CustomerService@sae.org
<http://www.sae.org>

SAE WEB ADDRESS:

Full document details: SAE J2691_202507

For more information on this standard, visit https://www.sae.org/standards/content/J2691_202507/

Documents

Standard, visit Sharing Hub

1. SCOPE

This SAE Standard establishes the minimum construction and performance requirements for a 15 pole connector between towing vehicles and trailers, for trucks, trailers, and dollies, for 12 VDC nominal applications in conjunction with SAE J2742. The connector accommodates both power and ISO 11992-1 signal circuits along with dual ground wires to accommodate grounding requirements within the constraints of the SAE J2691 terminal capacity.

2. REFERENCES

2.1 Applicable Documents

The following publications form a part of this specification to the extent specified herein. Unless otherwise indicated, the latest issue of SAE publications shall apply.

2.1.1 SAE Publications

Available from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 877-606-7323 (inside USA and Canada) or +1 724-776-4970 (outside USA), www.sae.org.

SAE J560	Primary and Auxiliary Seven Conductor Electrical Connector for Truck-Trailer Jumper Cable
SAE J2222	Coiled Electrical Cable - Truck and Bus
SAE J2394	Seven Conductor Cable for ABS Power - Truck and Bus
SAE J2742	Combination 11 Conductors and 2 Pairs ECBS Cable

2.1.2 ASTM International Publications

Available from ASTM International, 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA 19428-2959, Tel: 610-832-9585, www.astm.org.

ASTM B117-94	Standard Method of Salt Spray (Fog) Testing
ASTM G153	Standard Practice for Operating Enclosed Carbon Arc Light Apparatus for Exposure of Nonmetallic Materials
ASTM G154	Standard Practice for Operating Fluorescent Light Apparatus for UV Exposure of Nonmetallic Materials

2.1.3 ISO Publications

Copies of these documents are available online at <http://webstore.ansi.org/>.

ISO 1185	Electrical Connections Between Towing and Towed Vehicles with 24 V Systems - 7 Pole Connector Type 24 N (normal)
ISO 1724	Electrical Connections Between Towing and Towed Vehicles with 12 V Systems - 7 Pole Connector Type 12 N (normal)
ISO 3731	Road Vehicles - Electrical Connections Between Towing and Towed Vehicles with 24 V Systems - 7 Pole Connector Type 24 S (supplementary)
ISO 3732	Road Vehicles - Electrical Connections Between Towing and Towed Vehicles with 12 V Systems - 7 Pole Connector Type 12 S (supplementary)
ISO 4009	Road Vehicles - Location of Electrical and Pneumatic Connections Between Towing Vehicles and Trailers
ISO 4091	Road Vehicles - Connectors for the Electrical Connection of Towing and Towed Vehicles - Definitions, Tests, and Requirements
ISO 7638-2	Road Vehicles - Connectors for the Electrical Connection of Towing and Towed Vehicles - Part 2: Connectors for Braking Systems and Running Gear of Vehicles with 12 V Nominal Supply Voltage
ISO 11992-1	Interchange of Digital Information on Electrical Connections Between Towing and Towed Vehicles. Part 1 - Physical and Datalink Layers

2.1.4 Code of Federal Regulations (CFR) Publications

Available from the United States Government Printing Office, 732 North Capitol Street, NW, Washington, DC 20401, Tel: 202-512-1800, www.gpoaccess.gov/cfr/retrieve.html.

49 CFR Part 571.108	Lamps, Reflective Devices, and Associated Equipment
49 CFR Part 571.121	Air Brake Systems

3. TERMS AND DEFINITIONS

For the purposes of this document, the following terms and definitions given in ISO 4091 apply.