INTERNATIONAL **STANDARD**

ISO 4091

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AMENDMENT 1 1997-03-15

Road vehicles — Connectors for electrical connections between towing vehicles and trailers — Test methods and performance requirements

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Cick to the chicules tracte de fonctionneme. Véhicules routiers — Connecteurs pour connexions électriques entre véhicules tracteurs et remorques — Méthodes d'essai et caractéristiques de fonctionnement



Foreword

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60 4091.19921Amd 1.1991 Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

STANDARDSISO.COM. Click to view Amendment 1 to International Standard ISO 4091:1992 was prepared by Technical Committee ISO/TC 22, Road vehicles, Subcommittee SC 3, Electrical and electronic equipment.

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AMENDMENT 1

Page 1, clause 2

Add the following normative references:

ISO 7638-1:—1), Road vehicles — Electrical connectors for braking systems — Part 1: Connectors for 24 V nominal supply voltage.

ISO 7638-2:—1). Road vehicles — Electrical connectors for braking systems — Part 2: Connectors for 12 V nominal supply voltage.

ISO 12098:1994, Commercial vehicles with 24 V systems — 15-pole connectors between towing vehicles and trailers — Dimensions and contact allocation

Page 2, subclause 3.3.5

Replace the third paragraph with the following:

Wire all contacts except the data contacts in series and connect them to a d.c. source adjusted to an initial current of 100 mA to monitor connection resistance during the entire test, see arrangement in figure 2. Wire the contacts for data transmission in the connector according to ISO 7638-1, ISO 7638-2 or ISO 12098 in series and connect them to a d.c. source adjusted to an initial current of 5 mA to monitor connection resistance during the entire test, see arrangement in figure 2.

Replace "Figure 6 — Current cycling test" with "Figure 6 — Current cycle".

¹⁾ To be published. (Revision of ISO 7638:1985)

Page 6, table 2

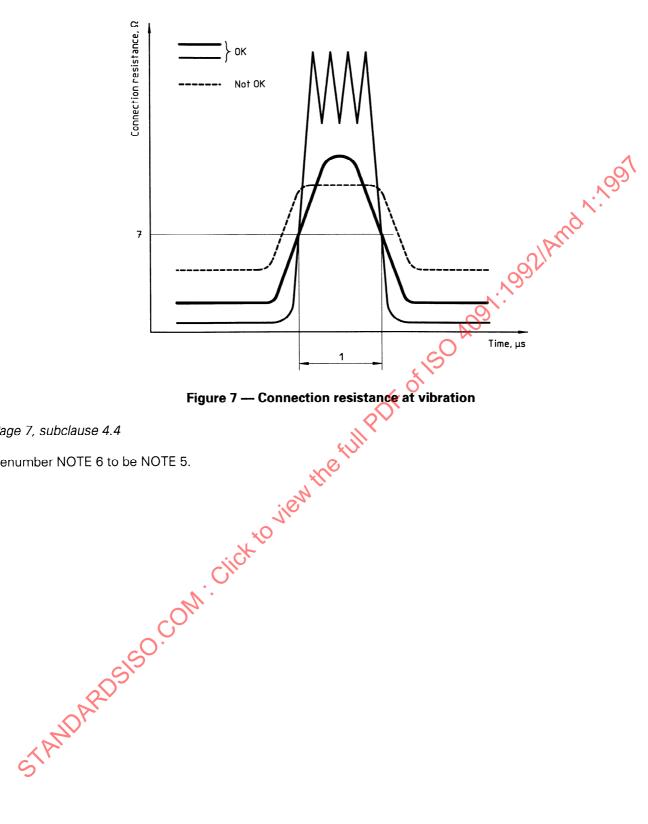
Replace the existing table 2 with the following table 2:

Reference subclause	Test	Sample					
		Α	В	С	D	Е	F
3.2	Visual examination	1	1	1	1	1	1
4.2	Dimensional check	2				2	3
3.3.3	Insertion and withdrawal force test: insertion	3	2	2		.2	
3.3.4	Locking device operating test	4 8	3 10	3 8	Mo	3 8	
3.3.1	Static load test	5		3			
3.3.2	Locking device and cable retention strength test	6		<u>6,</u>			
3.3.9	Lateral strength at low temperature	7	9				
3.5.2	Voltage drop test	0	4 7	4 7	2 5	4 7	2 5
3.3.6	Salt spray test			5			
3.5.1	Current carrying capacity test				3		
3.5.4	Current cycling test				4		
3.5.3	Flash test		5 9	6		5 11	3 6
3.6	Endurance test					6	
3.3.5	Vibration test						4
3.3.8	Temperature/humidity test		6				
3.3.3	Insertion and withdrawal force test: withdrawal	9	11	9		9	
3.3.7	Water splash test		8			10	

Page 7, subclause 4.3.5

Replace NOTE 5 with the following paragraph and figure 7.

During the vibration test as in 3.3.5, the resistance of the contacts monitored (connection resistance) shall not exceed 7. Ω for a period of more than 1 μ s (see figure 7).



Page 7, subclause 4.4

Renumber NOTE 6 to be NOTE 5.

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