

# ISO 8092-2:2005-12 (E)

## Road vehicles - Connections for on-board electrical wiring harnesses - Part 2: Definitions, test methods and general performance requirements

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
<b>1</b>	<b>Scope .....</b>	<b>1</b>
<b>2</b>	<b>Normative references .....</b>	<b>1</b>
<b>3</b>	<b>Terms and definitions .....</b>	<b>2</b>
<b>4</b>	<b>Tests and requirements .....</b>	<b>4</b>
4.1	General .....	4
4.2	Visual examination .....	5
4.3	Connection and disconnection .....	7
4.4	Tensile strength for crimped connections .....	8
4.5	Locking device strength .....	9
4.6	Contact insertion force .....	9
4.7	Contact retention in housing .....	9
4.8	Connection resistance (voltage drop) .....	10
4.9	Influence of water .....	12
4.10	Temperature / humidity cycling .....	13
4.11	Combined temperature / vibration .....	16
4.12	Insulation resistance .....	18
4.13	Withstand voltage .....	18
4.14	Temperature rise .....	19
4.15	Connector coding and polarisation .....	21
4.16	Salt spray .....	21
4.17	Current cycling .....	21
4.18	Thermal ageing .....	21
4.19	Mechanical shock .....	22
4.20	Drop .....	22
4.21	Dust .....	23
4.22	Rapid change of temperature (thermal shock) .....	24
4.23	Chemical fluids .....	24
4.24	Flowing gas corrosion test .....	25
<b>Annex A (normative)</b>	<b>Additional cable dimensions .....</b>	<b>26</b>
<b>Annex B (informative)</b>	<b>Cable attachment by insulation-displacement connection (IDC) -- Bending test .....</b>	<b>27</b>
<b>Bibliography .....</b>		<b>29</b>