Road vehicles — Electrical disturbances from conduction and coupling —

Part 3:
Electrical transient transmission by capacitive and inductive coupling via lines other than supply lines

Véhicules routiers — Perturbations électriques par conduction et par couplage —
Partie 3: Transmission des perturbations électriques par couplage capacitif ou inductif le long des lignes autres que les lignes d’alimentation
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Foreword

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The committee responsible for this document is ISO/TC 22, Road vehicles, Subcommittee SC 32, Electrical and electronic components and general system aspects.

This third edition cancels and replaces the second edition (ISO 7637–3:2007), which has been technically revised.

ISO 7637 consists of the following parts, under the general title Road vehicles — Electrical disturbances from conduction and coupling:

— Part 1: Definitions and general considerations
— Part 2: Electrical transient conduction along supply lines only
— Part 3: Electrical transient transmission by capacitive and inductive coupling via lines other than supply lines

The following parts are under preparation:

— Part 4: Electrical transient conduction along shielded high voltage supply lines only
— Part 5: Enhanced definitions and verification methods for harmonization of pulse generators according to ISO 7637-2 [Technical Report]

Annex A forms an integral part of this part of ISO 7637.
Annex B and Annex C are informative.
Introduction

The fast transient pulse test uses bursts composed of a number of fast transient pulses, which are coupled into lines (I/O lines in particular) of electronic equipment. The fast rise time, the repetition rate and the low energy of the fast transient bursts are significant to the test.

The slow transient pulse test applies a number of single pulses, as used for conducted transient pulse test, to the DUT.