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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 24976.4-2010

**Guide of environmental design for electrical accessories -- Part
4: Plugs, socket-outlets and couplers for industrial purposes
(English Translation)**

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Table of Contents

Preface
1 Scope
2 Normative references
3 Terms and definitions
4 Environmental aspects into product design and development of the overall consideration of
5 Basic principles of environmental aspects into product design and development
5.1 General
5.2 Raw material acquisition phase
5.3 Manufacturing Phase
5.4 Packaging, transport and distribution phase
5.5 Use Stage
5.6 End of life (recycling) Phase

Foreword

GB/T 24976 "Electrical accessories Environmental Design" includes the following sections.

- Part 1. General;
- Part 2. Conduit systems for cable management trough and pipe systems;
- Part 3. Household and similar cable reel;
- Part 4. industrial plug and socket coupler;
- Part 5. plug and socket for household and similar purposes;
- Part 6. Household and similar appliances couplers;
- Part 7. Household and similar low-voltage electrical connector device;
- Part 8. Switches for household and similar fixed electrical installations.

This part of GB/T 24976 "Electrical accessories Environmental Design" in Section 4. This section should be GB/T 24976.1-2010 "Electrical accessories Environmental Design - Part 1. General Principles" used in conjunction.

This part by the Environmental Committee of the National Standardization Technical Electrical and Electronic Products and Systems (SAC/TC297) and focal points.

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1 Scope

This section provides environmental aspects into the basic principles of industrial plug and socket coupler products.

This section applies to new or improved product design.

This section applies to the industrial plug and socket coupler includes industrial plugs, industrial sockets and connectors for industrial use, industrial appliances Input socket, and other industries with a coupling.

The purpose of this section is to the product design stage to control its impact on the environment.

2 Normative references

The following documents contain provisions which, through reference GB/T 24976 in this section constitute provisions of this section. For dated reference documents Member, all subsequent amendments (not including errata content) or revisions do not apply to this section, however, encouraged to reach under this section Parties to research agreement to use the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

GB/T 11918 industrial plugs and sockets and couplers - Part 1. General requirements (GB/T 11918-2001, idt IEC 60309-1:1999) GB/T 11919 industrial plugs and sockets and couplers - Part 2. Size interchangeability requirements for pin and sleeve electrical accessories (GB/T 11919-2001, idt IEC 60309-2:1999) GB/T 24976.1-2010 electrical accessories Environmental Design - Part 1. General

3 Terms and Definitions

GB/T 24976.1-2010 Chapter 3 apply.

4 Environmental aspects into consideration overall product design and development

GB/T 24976.1-2010 Chapter 4 apply.

5.1 General

GB/T 24976.1-2010 5.1 add the following after apply.

Designers should note that research GB/T 11918 and GB/T 11919 in the relevant requirements.

5.2 Raw material acquisition phase

GB/T 24976.1-2010 5.2 apply to add the following after.

5.2.101 Insulating material

Designers should note that research the following principles.

a) material category Industrial plug and socket coupler insulating material is mainly used in the manufacture base, housing and other components, should be preferred thermoplastic engineering Plastics (eg, PC, PA, ABS, etc.).

b) a flame retardant