PNS 1087:1992

BPS

PHILIPPINE NATIONAL STANDARD

Electrical Wires and Cables - Hard-drawn Copper Stranded Conductors for Electrical Purposes - Specification

BUREAU OF PRODUCT STANDARDS

DEPARTMENT OF TRADE AND INDUSTRY

Foreword

This Philippine National Standard Specification for Hard-Drawn Stranded Conductors for Electrical Purposes was prepared by the Technical Committee on Electric Wires and Cables of the Bureau of Product Standards, BPS/TC 1.

In the preparation of this standard, the following documents were consulted:

1) JIS C 3105-1976 - Hard-drawn Copper Stranded Conductors

2) PNS 35:1984/Amendment 01:1990 - Thermoplastic Insulated Electric Wires Wires and Cables - Specifications

3) Philippine Electrical Code, Part 1:1988

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1 Scope

This standard specifies requirements for hard-drawn copper stranded conductors, hereinafter referred to as "stranded conductors", to be used for overhead transmission lines, distribution lines and other electrical applications.

2 References

The following standards contain provisions which through reference in the text form part of this national standard. At the time of publication of this PNS, the editions indicated were valid:

PNS 1088:1992 - Electrical Copper and Aluminium Wires - Test Methods

PNS 1086:1992 - Hard-drawn Solid Copper Wires for Electrical Purposes - Specification

3 Classification, Symbols and Designation

3.1 The classification and symbols of stranded conductors shall be as given in Table 1.

Table 1 - Classification and Symbols of Stranded Conductors

Classification	Symbol	Remark
Class 1	HD	For general use
Class 2	OHD	For overhead transmission lines

3.2 The designation of the stranded conductors shall be based on classification and nominal cross-sectional area or by symbols and nominal cross-sectional area.

Example: Class 1 - 100 mm²
or HD - 100 mm²

4 Requirements

4.1 Appearance

The stranded conductors shall have a smooth surface, and shall be free from flaws, cracks, loose strands, and other imperfections.