



# MALAYSIAN STANDARD

MS IEC 62641:2022

**Conductors for overhead lines – Aluminium  
and aluminium alloy wires for concentric lay  
stranded conductors  
(IEC 62641:2022, IDT)**

ICS: 29.060.01; 29.240.20

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## MS IEC 62641:2022

### Committee representation

The National Standards Committee on Generation, Transmission and Distribution of Energy (NSC 05) under whose authority this Malaysian Standard was developed, comprises representatives from the following organisations:

Association of Consulting Engineers Malaysia  
Department of Standards Malaysia (Secretariat)  
Federation of Malaysian Consumers Association  
Federation of Malaysian Manufacturers  
Jabatan Kerja Raya  
Malaysian Cable Manufacturers Association  
Malaysian Communications and Multimedia Commission  
Malaysian Electrical Appliances and Distributors Association  
Malaysian Green Technology Corporation  
Sabah Electricity Sdn Bhd  
Sarawak Energy Berhad  
SIRIM QAS International Sdn Bhd  
Suruhanjaya Tenaga  
Sustainable Energy Development Authority Malaysia  
Tenaga Nasional Berhad  
The Electrical and Electronics Association of Malaysia  
The Institution of Engineers, Malaysia  
Universiti Malaya  
Universiti Teknologi Malaysia

The Technical Committee on Cables and Cable Accessories (NSC 05/TC 15) which supervised the adoption of the IEC Standard as Malaysian Standard consists of representatives from the following organisations:

Association of Consulting Engineers Malaysia  
Department of Standards Malaysia (Secretariat)  
Jabatan Kerja Raya Malaysia  
Malaysian Cable Manufacturers Association  
Malaysian Electrical Appliances Distributors Association  
Petroleum Nasional Berhad  
SIRIM QAS International Sdn Bhd  
Suruhanjaya Tenaga  
Telekom Malaysia Berhad  
Tenaga Nasional Berhad  
The Electrical and Electronics Association of Malaysia  
The Institution of Engineers, Malaysia  
Universiti Malaya

## MS IEC 62641:2022

The Working Group on Cables (NSC 05/TC 15/WG 1) which recommended the adoption of the IEC Standard as Malaysian Standard consists of representatives from the following organisations:

Association of Consulting Engineers Malaysia  
Central Cables Berhad  
Department of Standards Malaysia (Secretariat)  
Fajar Cables Sdn Bhd  
Hi-Essence Cable Sdn Bhd  
Leader Cable Industry Berhad  
Malaysian Cable Manufacturers Association  
Malaysian Electrical Appliances Distributors Association  
Master Tec Wire & Cable Sdn Bhd  
Mega Cable Sdn Bhd  
Olympic Cable Company Sdn Bhd  
Power Cables Malaysia Sdn Bhd  
Sindutch Cable Manufacturer Sdn Bhd  
SIRIM QAS International Sdn Bhd  
Southern Cable Sdn Bhd  
Tenaga Cable Industries Sdn Bhd  
The Institution of Engineers, Malaysia  
Universal Cable (M) Berhad  
Universiti Malaya  
Utama Cables Sdn Bhd

**Co-opted members:**

Suruhanjaya Tenaga

## MS IEC 62641:2022

### National Foreword

The adoption of the IEC Standard as a Malaysian Standard was recommended by the Working Group on Cables (NSC 05/TC 15/WG 1) under the authority of the National Standards Committee on Generation, Transmission and Distribution of Energy (NSC 05).

This MS IEC 62641 cancels and replaces MS 1143:1989, *Specification for aluminium alloy stranded conductor for overhead power transmission*.

This Malaysian Standard is identical with IEC 62641:2022, *Conductors for overhead lines – Aluminium and aluminium alloy wires for concentric lay stranded conductors*, published by the International Electrotechnical Commission (IEC). However, for the purposes of this Malaysian Standard, the following apply:

- a) in the source text, “this International Standard” should read “this Malaysian Standard”;
- b) the comma which is used as a decimal sign (if any), to read as a point; and
- c) reference to International Standards should be replaced by corresponding Malaysian Standards as follows:

#### Referenced International Standards

ISO 6892-1, *Metallic materials – Tensile testing - Part 1: Method of test at room temperature*

#### Corresponding Malaysian Standards

MS ISO 6892-1, *Metallic materials – Tensile testing - Part 1: Method of test at room temperature*

Compliance with a Malaysian Standard does not of itself confer immunity from legal obligations.

NOTE IDT on the front cover indicates an identical standard i.e. a standard where the technical content, structure, and wording (or is an identical translation) of a Malaysian Standard is exactly the same as in an International Standard or is identical in technical content and structure although it may contain the minimal editorial changes specified in clause 4.2 of ISO/IEC Guide 21-1:2005.