



JABATAN KERJA RAYA MALAYSIA
CAWANGAN KEJURUTERAAN ELEKTRIK
UNIT PENSIJILAN BAHAN & STANDARD

TECHNICAL INFORMATION

XLPE INSULATED, PVC SHEATHED POWER CABLES (ARMOURED AND NON ARMOURED)

A. COMPANY INFORMATION						
COMPANY NAME :						
ADDRESS :				TELEPHONE NO :		
				FAX NO :		
				COMPANY EMAIL :		
ISO CERTIFIED COMPANY			REGISTRATION NO:		SCOPE:	
1. ISO 9001	<input type="checkbox"/>	YES	<input type="checkbox"/>	NO
2. ISO 14001	<input type="checkbox"/>	YES	<input type="checkbox"/>	NO
3. ISO 50001	<input type="checkbox"/>	YES	<input type="checkbox"/>	NO
4. ISO	<input type="checkbox"/>	YES	<input type="checkbox"/>	NO

B. PRODUCT INFORMATION	
BRAND NAME :	
TYPE OF CABLES [Tick (v) TYPE APPLIED]	
1. XLPE INSULATED, PVC SHEATHED POWER CABLE (ARMOURED AND NON ARMOURED) (COPPER) (.....)	
2. XLPE INSULATED, PVC SHEATHED POWER CABLE (ARMOURED AND NON ARMOURED) (ALUMINIUM) (.....)	
STANDARD NO.: (MS IEC/IEC/etc.)	
CERTIFICATE OF APPROVAL : (SURUHANJAYA TENAGA, if any)	DATE OF ISSUE:
	VALID UNTIL:
PRODUCT CERTIFICATION : LICENSE (SIRIM/OTHER)	DATE OF ISSUE:
	VALID UNTIL:
TEST REPORT NO.:	TESTING LABORATORY:
	DATE OF ISSUE:
COUNTRY OF MANUFACTURE:	
NAME OF MANUFACTURER:	
FACTORY ADDRESS :	

Please Tick: Yes No - Office use

C. SPECIFICATION AND STANDARDS COMPLIANCE

- | | | | | |
|----|---|------------------------------|-----------------------------|--------------------------|
| 1. | XLPE insulated PVC sheathed cables armoured/non armoured manufactured and tested accordance to MS IEC 60502-1 | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> |
| 2. | The conductors shall be either Class 1 or Class 2 of plain or metal-coated annealed copper or plain aluminium or aluminium alloy in accordance with MS IEC 60228
Type of conductor : | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> |
| 3. | Maximum conductor temperatures during normal operation shall be 90°C | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> |
| 4. | Insulation material must use Cross-linked polyethylene (XLPE) with maximum conductor temperatures during normal operation (90°C) | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> |
| 5. | Sheathing material must use Polyvinyl chloride (PVC) type ST ₂ with maximum conductor temperatures during normal operation (90°C) | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> |
| 6. | Able to withstand a short circuit temperature of 250°C for 5 seconds | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> |
| 7. | Suitable for Voltage 600V/1000V | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> |
| 8. | The armour of single-core cables shall consist of non-magnetic material.
Material : | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> |
| 9. | Marking on the external surface for the cable shall be legible with at least the following elements; Manufacturer's identification, Voltage designation, Number of core, Nominal cross section area of conductor and Standard Numbers.
Marking : | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> |

D. OTHERS (please specify)

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E. LIST OF MATERIAL

No.	Name of part	Manufacturer	Type of Material	Approval Lab	Mill Cert No.
1	Conductor				
2	Insulation				
3	Filler				
4	Core wrapping				
5	Inner sheath				
6	Armouring				
7	Outer sheath				
8	Others :.....				

F. CABLE TECHNICAL DATA

1 To attach technical catalogue and data as per requirement below :

No.	Requirement
1.1	Current Carrying Capacity, Voltage drop and Installation method based on the following condition as per IEC 60364-5-523
	i. Maximum Conductor Temperature = 90°C
	ii. Maximum Ambient Temperature
	:- In Air = 30°C
	In Ground = 20°C
	iii. Soil Thermal Resistivity = 1.2Km/W
	iv. Laying Depth
	Voltage up to 1kV = 0.5M
	Voltage above 1kV = 0.8M
	v. Spacing Between Cable Laid
	In flat formation = 2 times of overall diameter
	In Trefoil = with cable touching
1.2	Conductor resistance (ohm/Km) at 20°C

2 Please attach cable technical data as below:

2.1	Current carrying capacity	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/>
2.2	Voltage drop per ampere per meter	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/>
2.3	Method of installation	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/>
2.4	Table of construction	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/>

G. LIST OF MODEL

No.	Model	Rated Voltage (V)	Size (sq.mm)	No.of Core

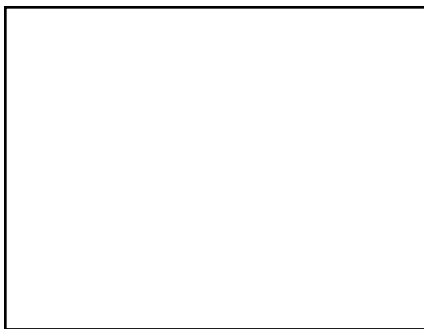
TECHNICAL INFORMATION

**XLPE INSULATED, PVC SHEATHED POWER
CABLES (ARMOURED AND NON ARMOURED)**

H. PENGESAHAN

Adalah saya dengan ini mengesahkan segala keterangan yang diberikan/dikemukakan bagi produk di atas adalah benar. Jika saya didapati membuat pengakuan **PALSU**, maka tindakan seterusnya boleh diambil oleh pihak JKR ke atas diri dan syarikat diwakili oleh saya.

Cop Syarikat :



Tandatangan :

Nama :

Jawatan :

Tarikh :

I. ULASAN (Untuk Kegunaan Pejabat)

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