



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

TECHNICAL INFORMATION

MEDIUM VOLTAGE CABLES

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 CABLE :	
i)	.....
ii)	.....
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, copper tape screen, PVC sheathed, steel wire armoured, stranded copper conductor cable manufactured and tested accordance to MS IEC 60502-2 or BS 6622 | <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 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 shall be 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 shall be 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 up to 12.7/22kV | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> |
| 8. 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. | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> |

Marking :.....

D. Technical data information (to attach technical catalogue):

- | | | | |
|---------------------------------------|------------------------------|-----------------------------|--------------------------|
| i. Current carrying capacity | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> |
| ii. Voltage drop per ampere per meter | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> |
| iii. Method of installation | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> |
| iv. Table of construction | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> |

E. OTHERS (please specify)

Please list any other data that need to be considered or highlighted :

1. _____
2. _____
3. _____
4. _____

F. LIST OF MATERIAL

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

G. CABLE TECHNICAL DATA

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

No.	Requirement
1.1	Current Carrying Capacity and installation method based on the following conditional or an as per relevant standard
	<ul style="list-style-type: none"> i. Maximum Conductor Temperature = 90°C ii. Maximum Ambient Temperature :- <ul style="list-style-type: none"> In Air = 30°C In Ground = 20°C iii. Soil Thermal Resistivity = 1.2Km/W iv. Laying Depth <ul style="list-style-type: none"> Voltage up to 1kV = 0.5M Voltage above 1kV = 0.8M v. Spacing Between Cable Laid <ul style="list-style-type: none"> In flat formation = 2 times of overall diameter In Trefoil = with cable touching
1.2	Conductor resistance (ohm/Km) at 20°C

G. LIST OF MODEL

NOTE: Minimum size (sq.mm) of cable up to 240 sq.mm only

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

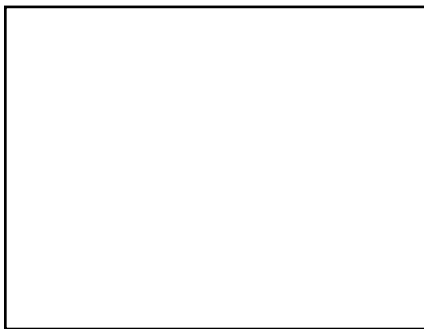
TECHNICAL INFORMATION

MEDIUM VOLTAGE CABLES

G. 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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