

SIJIL GUNA PAKAI

CERTIFICATE OF PRODUCT ACCEPTANCE



**TENAGA
NASIONAL BERHAD**

Serial No : D2021-0181: 0149

Manufacturer / Assembler

SOUTHERN CABLE SDN. BHD.
Lot 42, Jalan Merbau Pulas,
Kawasan Perusahaan Kuala Ketil,
09300 Kuala Ketil,
Kedah Darul Aman

Item/Equipment

**1kV, 4 CORES, CROSS-LINKED POLYETHYLENE (XLPE) INSULATED UNDERGROUND
CABLE**

i)	4Cx25mm ² (11074815)	iv)	4Cx185mm ² (11074818)
ii)	4Cx70mm ² (11074816)	v)	4Cx300mm ² (11074819)
iii)	4Cx120mm ² (11074817)		

Make/ Model

SOUTHERN CABLE SDN. BHD.

Qualification

Based on the assessment by TNB Labs Sdn. Bhd., the above equipment has complied with the specified requirements of TNB Technical Specification named below and is hereby accepted for use in the TNB system.

TNBD Technical Specification:

KEJ01104:2017, Rev. 1 (Approved Date: 13th September 2017)

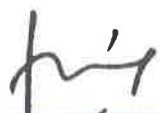
Specification for 1kV, 4 Cores, Cross-Linked Polyethylene (XLPE) Insulated Underground Cable

This certificate shall be read together with the attachment(s).

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Ir. ISMAIL BIN LAM DIN
Head (Asset Management)
Distribution Network Division, TNB

Certified since : 18th November 2010

Issue Date : 27th December 2021

Expiry Date : 1st November 2024

Certification is subject to the terms and conditions overleaf



Ref. No: PC/RSA1/STH/1/21

A) Technical Drawings

No.	Parts / Components	Drawing No.	Drawing Quantity	Approving Authority / Date
1.	1kV 4 Cores, Cross Linked Polyethylene (XLPE) Insulated Underground Cable 4C x 25SQMM	SC-265	1	TNBD – ES / 29 th October 2018
2.	1kV 4 Cores, Cross Linked Polyethylene (XLPE) Insulated Underground Cable 4C x 70SQMM	SC-266		
3.	1kV 4 Cores, Cross Linked Polyethylene (XLPE) Insulated Underground Cable 4C x 120SQMM	SC-267		
4.	1kV 4 Cores, Cross Linked Polyethylene (XLPE) Insulated Underground Cable 4C x 185SQMM	SC-268		
5.	1kV 4 Cores, Cross Linked Polyethylene (XLPE) Insulated Underground Cable 4C x 300SQMM	SC-269		

B) Source of Key Raw Materials / Components / Sub-assemblies

No.	Material / Component	Manufacturer	Model / Grade	Country of Origin
1.	Aluminium Ingot / Conductor	Tomago Aluminum Co. Pty. Ltd.	Ingot 107052, 23kg	Australia
		Sohar Aluminium Company	Std. Ingot-23kg-R-P1020A03-SI-0023/P1020A	Oman
		Ma'aden	Std. Ingot-MS0031/P1020I	Saudi Arabia
		Press Metal Bintulu Sdn Bhd	Ingot P1020 22kg	Malaysia
2.	XLPE Compound / Insulation	TSC Co. Ltd.	XLPE compound SH-100 Natural	Korea
		Plastrade Enterprise Sdn. Bhd. (also known as MHT Manufacturing Sdn. Bhd.)	Plaslink Crosslinkable Polyethylene Insulation Compound 125G Natural	Johor
		Chemtech Company Limited	Cross Linkable Polyethylene Compound Grade LS121NTA	Vietnam

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Attachment: 1 of 3

B) Source of Components / Sub-assemblies / Raw Materials (cont.)

No.	Material / Component	Manufacturer	Model / Grade	Country of Origin
3.	Non-hygroscopic filler	Polysplit Industries Sdn. Bhd.	Polypropylene Split Yarn/Filler Yarn	Selangor
		PP Yarn Industries (M) Sdn. Bhd.	Polypropylene split yarn (PP Yarn)	Selangor
4.	Non-Hygroscopic Binding Tape / Separator	Tauplene Industries Sdn. Bhd.	PP Woven Tape	HQ- Melaka Sales- Selangor
		Symphonic Packaging Sdn. Bhd.	PP Woven Laminated Fabric	Penang
		Polysplit Industries Sdn. Bhd.	Color Binder Tape (PTP Tape)	Negeri Sembilan
		Daya Sempurna Manufacturing Sdn. Bhd.	PP Woven Tape Non-Woven Tape	Negeri Sembilan
5.	Black PE ST7 Compound / Inner Sheath	Polyethylene Malaysia Sdn. Bhd.	BPD 4038	Kuala Lumpur
		Borouge	ME6052	UAE
		Thai Polyethylene Co. Ltd.	H2001WC	Thailand
		Plastrade Enterprise Sdn Bhd	a) PE – 800 Natural b) PE 900	Malaysia
		Nextol Polymer Sdn Bhd	NJK6400BK	Malaysia
6.	Copper Tape/ Metallic Screen	Luna Far East Sdn. Bhd.	Copper Tape (0.10 x 30mm)	Selangor
		Fullway Technology Co. Ltd	Copper Foil (0.1*35mm)	China
		Jiangsu Zhongtian Technology Co., Ltd	Copper Tape 0.10mm*30mm	China
7.	Anti-Termite Compound	Synergyschem Pte. Ltd.	Matemitan At 3300 (Eva Copolymer Compound Masterbatch)	Singapore
		Shanghai Mfg Plant PolyOne China	9026-Ft-40 Eva Color Concentrate	China

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B) Source of Components / Sub-assemblies / Raw Materials (cont.)

No.	Material / Component	Manufacturer	Model / Grade	Country of Origin
8.	Black PE ST7 Compound / Outer Sheath	Polyethylene Malaysia Sdn. Bhd.	BPD4038	Malaysia
		Borouge	ME6052	UAE
		SCG Plastic Co Ltd	H2001WC	Thailand
		Plastrade Enterprise Sdn Bhd	a) PE – 800 Natural b) PE 900	Malaysia
		Nextol Polymer Sdn Bhd	NJK6400BK	Malaysia
9.	UV Compound	Ultrabatch	Master UV 70333	Italy

C) Key Manufacturing Processes

No.	Manufacturing Process	Location
1.	Aluminium Rods	Southern Cable Sdn. Bhd., Kuala Ketil, Kedah
2.	Drawing (rod breakdown)	
3.	Rewinding	
4.	Medium drawing	
5.	IPQC	
6.	Stranding	
7.	IPQC	
8.	Insulation	
9.	IPQC	
10.	Cabling	
11.	IPQC	
12.	Bedding	
13.	IPQC	
14.	Taping	
15.	Sheathing	
16.	Finish goods testing	
17.	Packing	
18.	Store	

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