MELEC	包材印字图	物料代码	ZGSM-MZJK-3-10-P/872	文件编号	GSM-MZJK-3-10-P/872
嘉盟电力设备有限公司		物料名称	10KV中间说明书PILC/872	配套包材图图号	T2GSM-Fxxx-01
加皿也分及田内K公司				配套包材图编号	GSM-FD1A4S1

印刷要求:

- 1、 印刷页面数: 6;
- 2、 印刷颜色: 彩色全部转为灰度;
- 3、 印字清晰完整。

版本标记	2		次发行 「 內 容	朱国梁2023/2/28 变更人	唐张杰2023/2/28 审批
	/	第一	次发行	朱国梁2023/2/28	唐张杰2023/2/28
A1 /					
B1 /	/	转批	赵周薇2023/4/10		



Installation Instruction

10kV HEAT SHRINKABLE TRANSITION JOINT ACCESSORIES FOR 3 CORE XLPE/3 CORE PILC INSULATED CABLE

Diagrammatic



No.	Description	No.	Description	
1	HEAT SHRINKABLE OIL RESISTANT TUBING	13	CONSTANT FORCE SPRING	
2	HEAT SHRINKABLE TUBING	14	SOLDER WIRE	
3	HEAT SHRINKABLE BUSBAR INSULATION	15	SOLDER FLUX	
3	TUBING	15		
4	HEAT SHRINKABLE SEMI-CONDUCTIVE		HEAT SHRINKABLE TUBING	
4	BREAKOUT	16/17	THEAT STRINKABLE TOBING	
5	FILLER MASTIC	18	PVC TAPE	
6	FILLER MASTIC	19	TIN PLATING COPPER BINDING-WIRE	
7	OIL RESISTANT MASTIC	20	SANDCLOTH PAPER	
8	WATERPROOF SEALING MASTIC	21	CLEANER	
9	NYLON ROPE	22/23	CLEANING CLOTH/GLOVES	
10	HEAT SHRINKABLE TUBING	24	INSTALLATION INSTRUCTION	
11	ALUMINIUM-FOIL PAPER	25	PACKAGE LIST	
12	INSULATION COPPER BRAID			



CAUTION:

- 1. Working around energized high voltage systems may cause serious injury or death.
- 2. Installation should be performed by personnel familiar with good safety practice in handling high voltage electrical equipment.
- 3. Deenergizeand ground all electrical systems beforeinstalling this product.

Please dispose of all waste according



A. General Instructions:

- 1. This product should be installed by competent personnel familiar with cables, accessories and safe operating practices. Parts contained in this kit should be installed in accordance with the following instructions. These instructions are intended to be a guideline for a proper installation and not a substitute for a adequate training and experience in good safety practices.
- 2. Check to ensure that the kit you are going to use is for the correct cable (refer to the kit label and the title of the installation instruction). Carefully read and follow the steps in the installation instruction.
- 3. Inspect cable for presence of water or moisture and ensure that the cable is in good condition for termination. Keep the cable outer sheath clean and free from dust, oil and mud.
- 4. Use a propane (preferred) or butane gas torch in a properly ventilated and safe environment.
- 5. Use the yellow portion of the flame for shrinking. Avoid pencil-like blue flames.
- 6. Direct the gas torch flame in the shrink direction.
- 7. Keep the flame moving continuously to avoid scorching the sleeves and other shrinkable parts.
- 8. Ensure that the heat shrinkable components are shrunk uniformly and free of wrinkles and air bubbles.
- 9. Allow shrunk components to cool before applying mechanical fixtures.

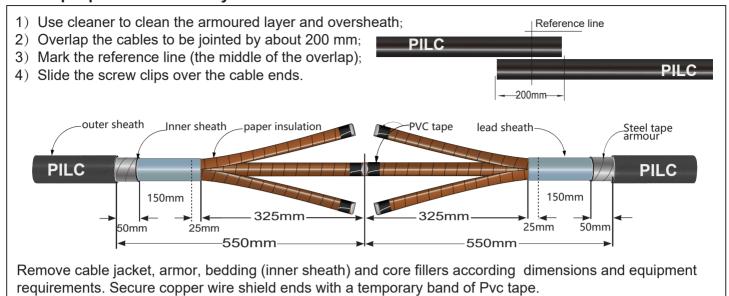
Jiangsu Jiameng Electrical Equipment Co., Ltd.
Sales Dept. Add: Room 4F, No. 58 Xinjinqiao Road,Pudong
New Area , Shanghai, China
Tel: +86-21-61656998-865
Fax: +86-21-61656998

Website: www.melec.com.cn

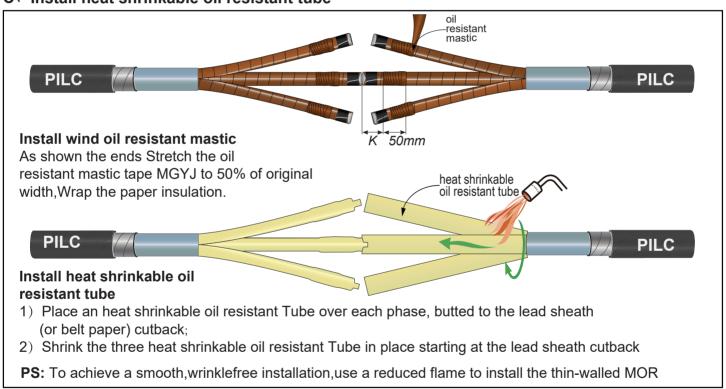
Factory Add: No. 5, Zhongli Road, Binhai Industrial Zone, Qidong ,Jiangsu , China Tel: +86-513-83900000 Fax: +86-513-83601898 Mailbox: info@melec.com.cn



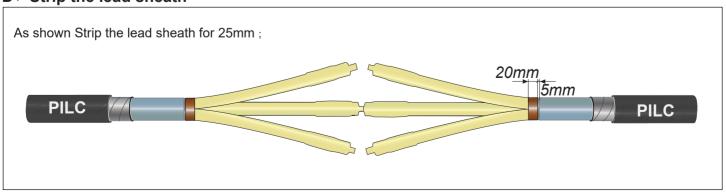
B. Strip xlpe cable shield layer



C. Install heat shrinkable oil resistant tube

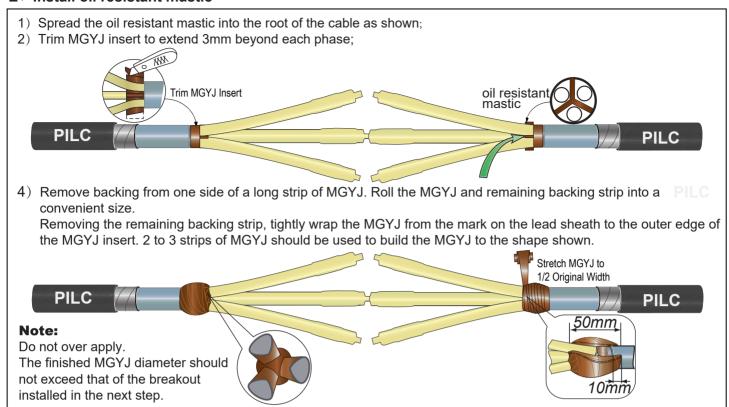


D. Strip the lead sheath

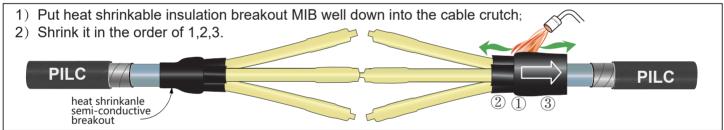




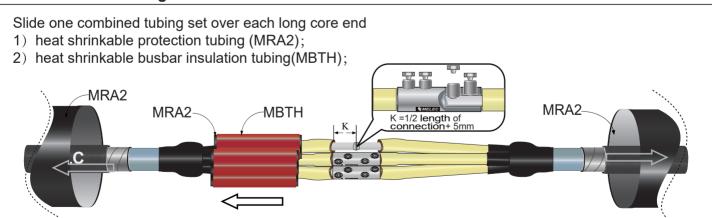
E. Install oil resistant mastic



F. Install Shrink heat shrinkable semi-conductive breakout



G. Position the tubing and installation connectors



- 1) Remove the oxide layer on the conductor surface with a brush;
- 2) Select suitable tool to install metal connectors according to the process requirements(The sequence of screwing off the bolts should be in accordance with the installation instructions of connectors);
- 3) After installing, smooth the sharp edges with a file, then remove the polished metal powder with cleaning kits;
- 4) Clean connectors and insulation.



H. Shrink the heat shrinkable tubing by heating

Installation sequence of heat-shrinkable tubing

- 1) heat shrinkable stress control tubing(black)
- 2) heat shrinkable busbar insulation tubing(red)

Installation method

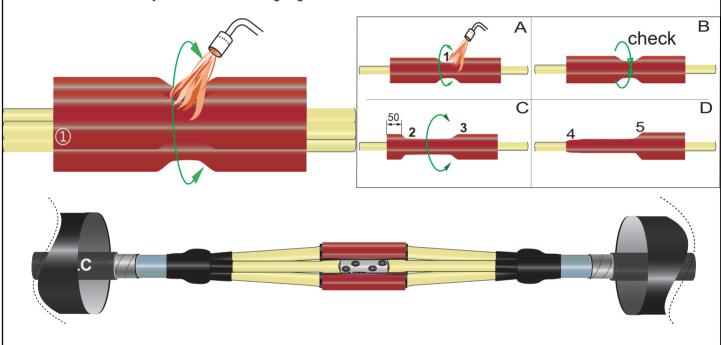
Position tubing centrally over the connectors. Start shrinking in the centre working towards the ends; **Note:**

Continue with the next step while the tubing are still hot.

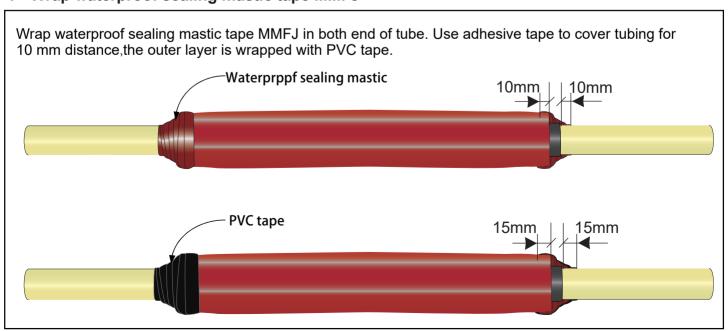
- A) Start shrinking the sleeves in the centre (1);
- B) Check if fully shrunk by twisting the end. The sleeves should not move from its position;
- C) Continue shrinking by working towards one side (2), stopping 50 mm from the end;
- D) Shrink down the first end (4) and finally the second (5) The sleeves should be fully shrunk without leaving ridges

Shrinkage instructions:

- 1) Adjust the voltage regulator and combustor properly, Use the outer yellow flame for heating, Keep the area for installation ventilated in order to avoid the influence of smog;
- 2) Use outer flame to heat the heat shrinkable products. The height of the flame should be 100-300 mm;
- 3) Unless otherwise stated, keep the flame move around the tubing evenly and with rotation;
- 4) Do not keep the flame at the same spot for over 3 seconds. It will burn the heat shrinkable products occasionally Instructions for combustor.



I. Wrap waterproof sealing mastic tape MMFJ

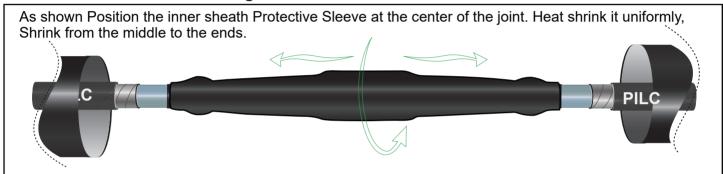




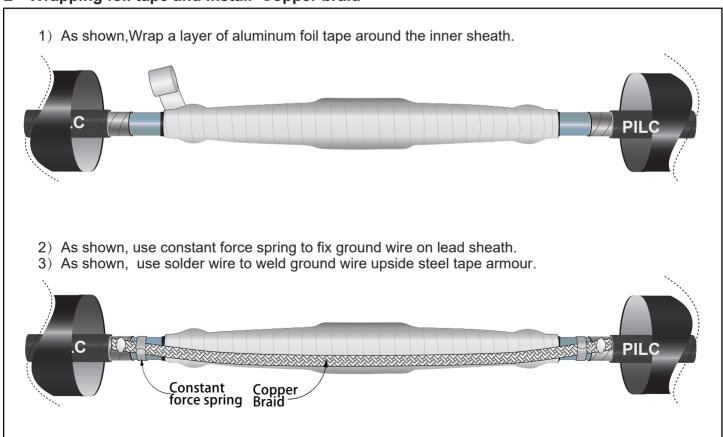
J. Fill the spaces between cores with Triangular Black Filler Mastic

Position the triangular black Filler Mastic between the cores to fill up spaces. Apply one piece of Filler Mastic each between the spaces of two cores longitudinally and compact it into gaps using hands. Apply PVC tape at both ends and centre of the Triangular Black Filler Mastic to hold them together in position.

K. Install heat shrinkable tubing MRA2 for inner sheath

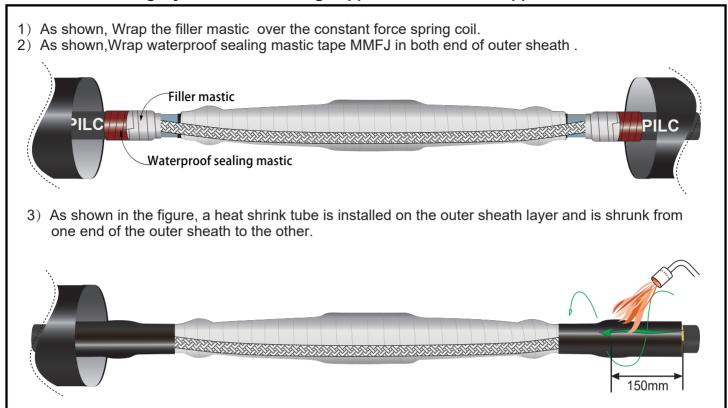


L. Wrapping foil tape and Install Copper braid

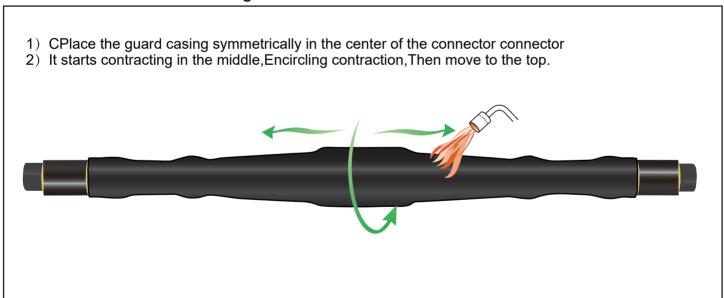




M. Install shielding layer tinned shielding copper net MTW and Copper braid



N. Install heat shrinkable tubing MRA2 for outer sheath



O. Joint completed

