

Equipment and Materials

▶ Contents **Equipment Figures ⊳**Remarks ▶ 38mm², 60m 4sets, 3P Basis(Phase Middle Cable identification: Band per color) ► Middle Cable is used to connect in straight section, and both ends of cable shall have the termination or more than equial structure and function being able to connect with straight joint and termination. It is used for principal line of by-pass system Done end is with termination to connect to HV consumer and branch line, and lower end is the cable having connection part being able to connect with various connector by on-ouch. □ It is strongly recommended to clean up and apply silicone greese in the connection surface of connection parts before connection. 000137 After using also, protection cap for (Su-san) dust-proof and protection bag are recommended to mount after cleaning of termination surface, silicone greese, dust and etc. Pay special attention to handle exterior metal parts since it cannot be utilized due to defomation by dropping and./or crashing. By-pass Cable is used when connection of Transformer with straight(branch) connector and is able to connect with elbow connector and straight(branch) connector. (Kwang-lim)

▶ Contents **Equipment Figures ⊳**Remarks ▶ 38mm², 15m 2sets, 3P Basis(Phase Cable clamp for identification: Band per color) main cable connection and termination cable ▶ It is composed of terminal being able to connect with inleted cable head parts and clamp being able to easily connect and disconnect with cable. ▶ Termination cable is used to connect overhead cable with inleted cable, and is able to connect with termination and inleted cable. ▶ Termination cable is used to connect termination cable with Van connection part, and is able to connect with straight (2-1) joint. Termination cable

▶ Contents **Equipment Figures ⊳**Remarks Branch cable ▶ 38mm², 15m 2sets, 3P Basis(Phase identification: Band per color) ▶ It is used to connect middle cable and branch cable and pole mounted T/R, and is able to connect with termination and branch connector. Done end is with termination being able to connect to HV consumer and branch cable, and lower end is the cable having connection part being able to connect with various connector by one-touch. and apply silicone greese in the connection surfaces of connection parts before connection. > After using also it is recommended to clean termination surface, silicone greese, dust and etc. > After cleaning, it is recommended to mount protection cap and protection bag.

▶ Contents **Equipment Figures ⊳**Remarks ▶ 38mm², 60m 2sets, 3P Basis(Phase LBS connection identification: Band per color) cable ▶ It is used to connect Van connection parts with LBS and composed of termination being able to connect with Van connection parts and T-type elbow connector or termination having more than equal structure and function. ${\,ert}$ It is strongly recommended to clean up and apply silicone greese in the surfaces of connection parts before connection. ▷ After using also, it is recommended to clean termination surface, silicone greese, dust and etc. \triangleright After cleaning, it is recommended to mount protection cap and protection bag. Pay special attention to handle connector metal parts since it can not be utilized due to deformation by dropping and/or crashing.

Equipment	Figures	▶ Contents
	riguies	⊳Remarks
5. LV Cable		 ▶ More than 60mm², 20m, more than 4 sets (for grounding: more than 22mm², 20m) ▶ It is the cable to easily connect to main cable by using T/R truck and to supply consumer of T/R secondary side power in case replacement of T/R

▶ Contents **Equipment Figures ⊳**Remarks Straight cable joint ► For middle cable connection 15sets ▶ It is used to mutually connect By-pass cable and middle cable and has structure not to easily take off under the state of tensile force of cable installation. □ Connect after identification of mutual cable colors(red, white, blue) to be connect. ▶ It is used for straight connection of each cable and is able to connect and disconnect by one-touch. It is strongly recommended to clean up and apply silicone greese in the surface of connection parts before connection. > After using also, it is recommended to clean up greese and dust in connection surface and to mount preotection cap in both ends. Pay special attention to handle connector metal parts since it can not be utilized due to deformation by dropping and/or crashing. Remarks ① Number of connection/disconnection: 2000times 2 It is recommended to ascertain if sudden change in function and connector deformation have been occurred by means of AC withstand voltage test and connecting resistance variation test in every 200times.

▶ Contents **Figures Equipment ⊳**Remarks (6-1) Straight joints ► For connection of middle cable 6pcs protection box ▶ It is used for protection from external impact when installation of straight joints on the ground. Put direct connection parts in protection box, then fix with lock metal parts. Lock the door, if necessary. with grounding wire since this protection box has a terminal for ground.

▶ Contents **Equipment Figures ⊳**Remarks (6-2) Straight joint ► For straight joint protection(for 3phases) custody box 6pcs ▶ It is used to protect connector from external impact when connector carriage and storage. 직선접속재 보관함 Connection Method of Connector 1. Connection Procedure 1) Removal of protection cap. 2) Clean connection parts of rubber mold up and apply silicone greese. SOOSAN 3) Connection of connector: Identify insertion completion mark(black band). 4) Line position of slide metal parts for locking must be rotated about 90 degree with pin for locking to prevent locking release. 2. Procedure of disconnection 1) Fit the line of slide metal parts for locking with position of pin for locking, then release locking by pulling out the slide metal parts to direction of pin for locking. 2) Disconnect the connector in the state of slide metal parts pulled out. 3) Mount protection cap after cleansing silicone greese, etc. in the connection surface of rubber mold.

▶Contents **Equipment Figures ⊳**Remarks (6-3) Cleansing gauze ▶ It is used for cleansing dirt and moisture of connection parts before connection of each connection parts. (6-4) Silicone grease then apply silicone grease when connecting cable to each connectors. SILICONE EUBHICANT (특고압용 절면 구리스)

▶ Contents **Equipment Figures ⊳**Remarks Branch connector ► T-Connector for branch cable 6ea ► Adapter for branch must be used for branch connection when distribution from principal line is required. □ Connect after identification of mutual cable colors (red, white, blue) to be 분기접속재 connect. 이 핑일신입 inserted in place that branch connector is vacant when it is used for straight connection. ${\,ert}$ It is strongly recommended to clean up (7-1) connection parts with cleansing gauze, Adapter for branch then apply silicone grease before connection. Pay special attention to handle connector metal parts since it can not be utilized due to deformation. 분기접속부

▶ Contents **Equipment Figures ⊳**Remarks (7-2) Protection box for ► For branch cable connection (T-branch branch connection connector) 6ea ▶ It is used to protect connection part from external impact when installation of T-branch connector on the ground. Put T-branch connection part in protection box and fix it by metal parts for locking, then lock the metal parts for locking if necessary. with grounding wire since this protection box has a terminal for ground. well when got wet by rain or moisture penetrated although no apprehension of erosion since it is made of stainless, aluminum and etc.

▶Contents **Equipment Figures** ⊳Remarks (7-3) Protection box for ► For branch connectors protection(for Branch connectors 3phases) 3ea ▶ It is used for protection of connector from external impact when transportation and storage of connectors. SOOSAN

▶Contents **Figures Equipment ⊳**Remarks Connector for Van ▶ It shall be mounted in T/R truck (Van : connection part upper terminal of T/R truck) : more than 38mm², 15m ▶ It is used to connect inlet cable and LBS connection cable, and has structure being able to firmly fix at Van. hinspace It is installed in upper part of Van of T/R truck when connection between inlet cable of temporary support pillar and LBS of T/R truck

▶ Contents **Equipment Figures ⊳**Remarks Temporary support ▶ For supporting insulation operation rod cleat and cable inlet 3ea ▶ It is for supporting cable by fixing at pole when cable inlet. ▷ Cleat part can be mounted in any direction of work at will. Don't fasten the butterfly-unts in each parts of cleat. with grounding wire since metal parts of temporary support cleat has connection bolt with grounding wire. (9-1) ► Metal parts are able to fix temporary Metal parts for pole support cleat in pole. fixing

▶ Contents **Equipment Figures ⊳**Remarks (9-2) Band for fixing in ► For by-pass cable support 10ea pole ▶ It is band for fixing cable strain clamp in ▶ For by-pass cable support 30ea (9-3) Cable strain clamp ▶ It is used to properly pull cable installed to pole Fasten hook of cable strain clamp at D-shaped ring of connecting band. and put cable in cable strain clamp. Fasten a wedge by beating cable strain clamp with a monkey wrench(spanner). > Adjust supporting position to equalize slackness of three cables.

▶Contents **Figures Equipment** ⊳Remarks (9-4) Metal parts for ▶ For managing room in length of cable surplus cable management ▶ When the cable length of installed middle cable and LBS cable is surplus, it is used for managing by rolling the surplus cable in bundle and hanging it on reel. □ Bundle of surplus cable shall be bigger than diameter of reel.

▶ Contents **Equipment Figures ⊳**Remarks Loadbreak switch ► For by-pass line switching(phase checking part) 2ea ▶ It is open/close equipment for incoming line to consumer of new installation and extension of HV distribution line and is used to devide line and branch off. ${\,ert}$ Connection method is easily to connect and disconnect by suing elbow and plug type per each phase. Department of Department Departme when transportation and it is not used. > Switch shall be positioned in OFF to prevent discharge of phase checking machine at normal times. Pay special attention not to bring down or give impact during transportation. □ Grounding is positively necessary when 11. LBS mounted inside T/R truck

▶ Contents **Equipment Figures ⊳**Remarks 12. Cable protector ▶ For protection from impact after cable installation on the ground 8ea ▶ It is used to protect cable from pressure and impact by passing of cars when cable be installed on the ground. □ Upper plate cover(yellow) and lower plate underlay(black) shall be overlapped and adhered. putting cable down in groove, then step on with the feet to proerly lock the underlay and cover. > Sands in groove of protector must be removed when putting cable into the groove.

▶Contents **Figures Equipment ⊳**Remarks 13. Cable reel ▶ For by-pass cable construction 24ea (Cable roller along the street) * Characteristic of cable roller along the - To protect cable from damage by installation on the ground. - Easy for removal works of cable roller along street. - No apprehension for stamping cable by passing cars.

▶ It is for loading on piece of cable reel and to install and rewind cable. ▶ It is to measure insualtion resistance of cable after cable installation.
and to install and rewind cable. ▶ It is to measure insualtion resistance of
 It is for measuring the load of each phases of working line by HV Ammeter. It is recommended to do work after loat transferring in abnormal situation by measuring load current.
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