



41.296.6.027

**JOINTING INSTRUCTION FOR 245-300 kV
PREMOULDED STRAIGHT JOINT**

for extruded cable with **Cu Stranded conductor
and **Lead sheath****

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PROPRIETARY INFORMATION

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Contents

SECTION	SUBJECT	PAGE N°.
1	Special tools and preliminary materials	3
2	Cable preparations	6
3	Cutting of semiconducting screen and expansion of premoulded sleeve	9
4	Jointing the conductor	13
5	Fitting the corona shield and removing the PVC tube	14
6	Assembling the joint	17
7	Protecting the Joint	18
8	Storage Instruction	19
9	Check list	20

Total Pages : 20

SECTION 1

SPECIAL TOOLS AND PRELIMINARY PREPARATION

1 Special tools

In addition to the tools normally used for joint installation, following special tools should be made available by the installer. (*These tools can be supplied on request by Pirelli*):

1. Insulation grooving tool with appropriate nylon bush (for XLPE insulation)
2. Insulation stripping tool
3. Motorised tool for the expansion of the premoulded sleeve onto the PVC tube with nose cone and backing plate to fit the PVC tube.
4. Removing tool to remove the PVC tube from the premoulded sleeve.
5. Hot air torch with 3mm PVC rods to repair PVC tube.
6. Thermoregulation Equipment for heat treatment

1a Units for jointing the conductors

NOTE : This jointing instruction applies to XLPE extruded cables with copper conductors.

To joint the conductors, following equipments are recommended by Pirelli; alternative equipment have to be agreed between installer and Pirelli.

1. Pirelli 70T or 180T compressing press with pump for “ Wires ” or “ Conci “copper conductors.

1b Consumable materials

- | | |
|--------|--|
| No.1 | Set of paper for plumbing |
| No.1 | Melinex tape (or similar) roll for protection of the insulation during jointing Operations |
| No.1 | Al oxide tape 150 - 220 - 320 and 400 grades |
| No.1 | Scottex type paper roll for cleaning |
| No.1 | Tubular polyethylene roll to protect the assemblies in case of jointing interruptions |
| Kg 1.5 | P.F solvent (Supplier: P.T. TECHNOLOGIES EUROPE) |

2 Preparing the conductors

2.1

2.2

3 Fitting the premoulded sleeve onto the PVC tube

3.1

3.2

3.3

3.4 Check accurately the PVC tube outer surface, if any marks are present then abrade the tube with aluminium oxide tape in order to obtain a perfectly smooth, polished surface.
Clean both inner and outer surfaces of the tube with P.F. solvent.

3.5



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