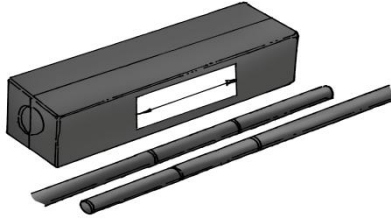


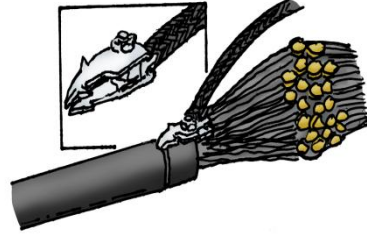
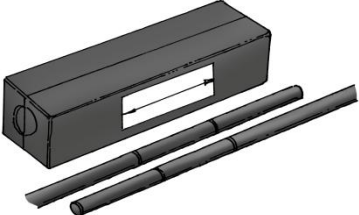
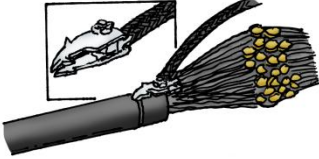


Instruction Manual

Review: 2014-09-15, Doc nr: 146 Rev: B

JCSA Tele-Cold-Seal

Product: JCSA

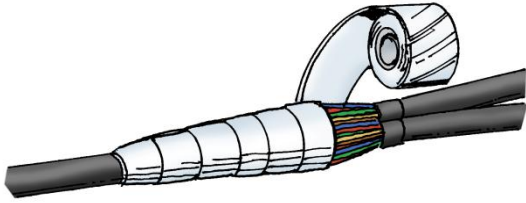
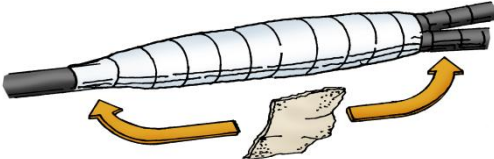
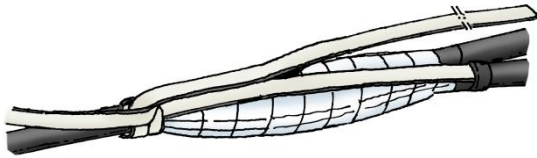
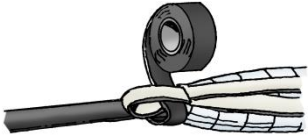

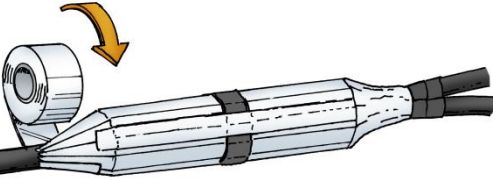
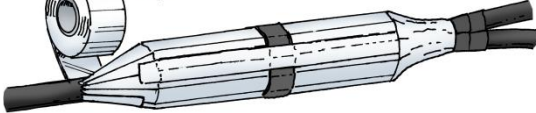
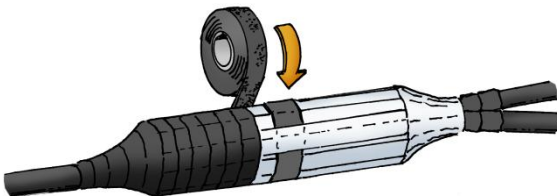
| | | |
|------------------|--|--|
| <p>1a</p> | <p>Preparatory work for PB and PBE cables.</p> <p>Mark the joint opening according to the schematic drawing at the bottom of the carton.</p> |  |
| <p>2a</p> | <p>Cut with a knife, on the marking around the jacket, but not through the whole jacket, bend and remove the jacket carefully.</p> |  |
| <p>3a</p> | <p>In the joint includes PBE-cable, you have to mark the jacket 120 mm upwards. Cut 3 – 4 longitudinal flaps with a "jacket cutter" in the plastic jacket towards the 120 mm marking. Clean the lead jacket by scratching with a knife 100 mm towards the joint opening.</p> |  |
| <p>4a</p> | <p>Earth connection: Cut a flap in the jacket 10 x 30 mm. Connect the earth connection with a linerman's pliers. Wrap 2 layers, doubled polyester band around the jacket edge, under the earth connection. Bend the earth connection back and fix it with 2 layers of doubled polyester band.</p> <p>Perform the conductor splicing. If the conductors are isolated with paper, you have to add hot air during the whole jointing procedure.</p> |  |
| <p>1b</p> | <p>Preparatory work for plastic jacket cables.</p> <p>Mark the joint opening according to table (see schematic drawing at the bottom of the carton). Perform the conductor splicing as instructed.</p> |  |
| <p>2b</p> | <p>Earth connection. Cut a flap in the jacket, 10 x 30 mm. Connect the earth connection wire with a linerman's pliers. Wrap under and over the earth connector. Do always perform an earthing on screened cables.</p> |  |

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Instruction Manual

Review: 2014-09-15, Doc nr: 146 Rev: B

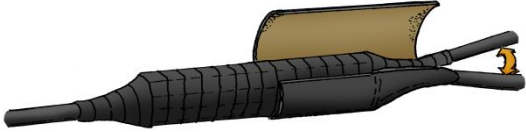
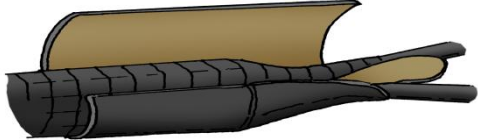
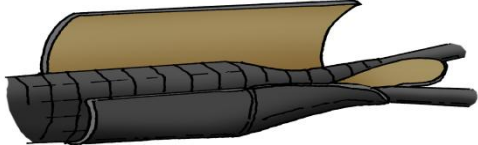
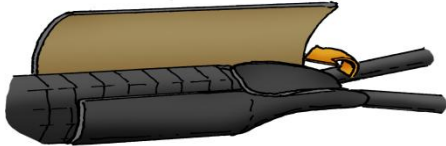

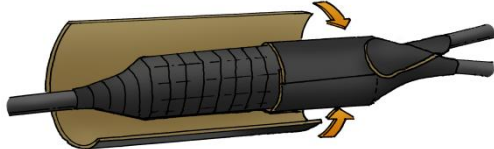
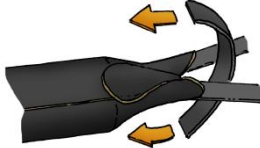
| | | |
|-----------------|--|--|
| <p>1</p> | <p>Joining NITTO-TELE-COLD-SEAL</p> <p>Do always use drying agent.</p> <p>Distribute all the drying agent bags in the kit all over the joint and insulate the joint with the polyester band.</p> |  |
| <p>2</p> | <p>Use fibreband to avoid axial tension load. Clean the cable sheath with dissolvant approx. 150 mm out on both sides and wipe with a dry clean cotton cloth.</p> |  |
| <p>3</p> | <p>Make a loop with the axial tension band around the cable and pass the end under the long end.</p> |  |
| <p>4</p> | <p>Lock the short end of the axial tension band by wrapping 2 layers of glass fibre tape.</p> |  |
| <p>5</p> | <p>Press the joint together a bit before you affix the axial tension unload on the opposite side, so that the conductors can not be strained. All cables in the joint shall be axial tensile unloaded.</p> |  |
| <p>6</p> | <p>Centre and wrap the metallized liner tight to and all over the joint and secure with 1 layer of tape in the middle. Close the longitudinal liner splice with aluminium tape.</p> |  |
| <p>7</p> | <p>Use aluminium tape to put the ends of the metallized liner together and trim the surface with a round object.</p> |  |
| <p>8</p> | <p>Wrap 1 layer of anti-corrosion tape over the entire metallized liner. To make it easier to open the joint, the tape shall be wrapped with the adhesive outwards on the straight part of the liner. On a brach joint, use tape also in between the cables so that the jelly cannot escape.</p> |  |

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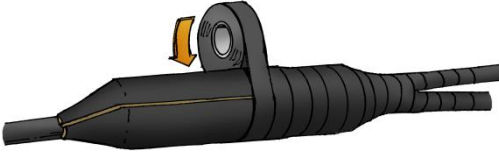

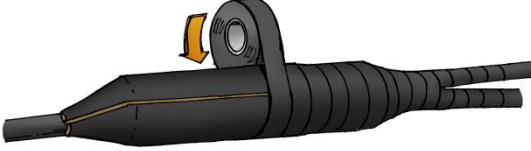
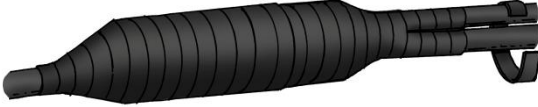
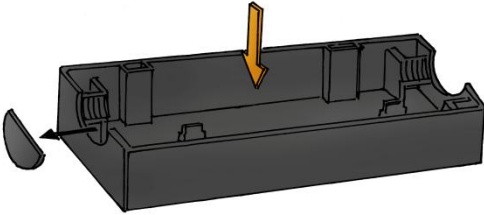
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| <p>9</p> | <p>Use the smaller self-fusing sheet in the branch. Part the cables a bit and place the sheet under the cables at least 50 mm upwards the jacket.</p> |  |
| <p>10</p> | <p>Fix a corner of the self-fusing sheet around one of the branch cable itself.</p> |  |
| <p>11</p> | <p>Take the sheet between the cables and stretch it outwards.</p> <p>If the joint includes more than 3 branch cables, the cables have to be fixed along the centre line. To make the branch tightening according to the pictures 9 -13, the kit has to be completed with lose self fusing sheet which has to be fixed into the branch with a strip of PVC tape according to picture 15.</p> |  |
| <p>12</p> | <p>Fold "the flap" through the branch and towards the joint to ensure a good seal.</p> |  |
| <p>13</p> | <p>Wrap the self-fusing sheet around the cable and repeat the branch tightening every time the branch is passed. If the joint includes several branches, you have to repeat above for each branch.</p> |  |
| <p>14</p> | <p>Take the larger self-fusing sheet and wrap it around the rest of the joint area. Apply the sheet 20 mm covering the smaller sheet and min 50 mm upwards the sheath.</p> <p>Note! The self-fusing sheet shall not be stretched.</p> |  |
| <p>15</p> | <p>Press the self-fusing sheet in to the branch bottom with a band of anti-corrosion tape.</p> |  |

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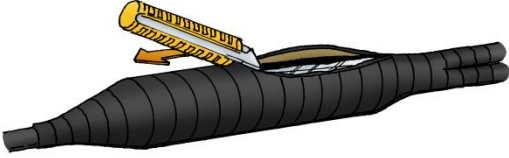

| | | |
|------------------|--|--|
| <p>16</p> | <p>Wrap 2 layers of anti-corrosion tape with 50% overlap over the entire joint area and approx. 20 mm covering outside the self-fusing sheet.</p> <p>Note! The tape shall be gently stretched during the wrapping operation, so that the self-fusing sheet will be as tight as possible.</p> |  |
| <p>17</p> | <p>Branching joint: start wrapping each of the branch cable.</p> |  |
| <p>18</p> | <p>Continue the wrapping all over the whole joint area and turn back wrapping against the branch. Finish by stretching the branch cables together. Use the wider tape on the straight part of the joint.</p> |  |
| <p>19</p> | <p>Branch jointing. Secure the cables approx. 50 mm on each side of the joint with 4 layers of anti corrosion tape.</p> <p>PBE-cable: Fold the jacket flaps and wrap 2 layers of tape over and 25 mm outside on both sides of the jacket flaps. In under ground cable connection, the joint shall be protected with a split cable duct.</p> |  |
| <p>20</p> | <p>Break out the cable hole caps. Place the entire joint in the middle of one half of the protection cover. If desired the cables may be secured with cable ties. Mount the other half of protection cover on top and close by securing the lugs on the long sides.</p> |  |

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| | | |
|----------|---|--|
| 1 | How to open a joint closure system with self-fusing sheet Cut along the joint with a knife. Because of the inner tape wrapping is done with the adhesive outwards, the closure opens and the metallized liner will appear. |  |
| 2 | Cut around the ends of the metallized liner and take away the "tape bandage". Cut carefully through the closure on the cable and remove the self-fusing sheet. | |
| 3 | Remaining self-fusing sheet on the cable sheats can easily be removed by pushing a piece of self-fusing sheet on it. As an alternative, you can let left over sheet remain on the cables sheat, as it will not make the reclosure more difficult. |  |

Please ask for trainings in the Nitto cold-applied joint closure method

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