**DESCRIPTION**

The LT-HSS Splice Kit is for use with braided versions of Nelson Heat Tracing Systems’ type HLT heater cables in ordinary and hazardous areas.

**KIT CONTENTS**

- 5 Uninsulated Splice Connectors
- 10 Insulated Splice Connectors
- 5 Shrink Tubes, 13mm (0.5”) diameter, 152mm (6”) length

**STRIPPING PROCEDURES**

1. Unravel approximately 102mm (4”) of braid to form a ground strap.

2. Lightly cut around heater outer jacket 51mm (2”) from the end. Lightly cut the outer jacket up the center between the first cut mark & the cable end. Bend cable to break outer jacket.

3. Remove jacket from the heater cable.

4. Shave core material from the outside of each bus wire.

**WARNING:**

DO NOT CUT BUS WIRES

5. Starting at the end, pull each bus wire away from the core material and remove exposed core material.

6. Repeat steps 1-5 for both heater cables.

**SHRINK TUBE PROCEDURES**

1. Position both heater cables with the ground braid on the same side. Remove 32mm (1.25") of bus wire from each heater cable to offset for insulated splice connectors.

2. Slide a shrink tube over one of the heater cables. Crimp an insulated splice connector to each bus wire connecting the two heater cables together.

3. Center the shrink tube over the connectors leaving the braid straps exposed. Shrink with heat gun until completely shrunk. A uniform bead of glue should appear around the ends of the shrink tube.

4. If necessary, cut excess length from braid straps. Crimp the braid straps together into an uninsulated splice connector. Secure the connector at the indented area with one and a half wraps of fiberglass tape (not included in kit).
DESCRIPTION
The LT-HST Tee Splice Kit is for use with braided versions of Nelson Heat Tracing Systems’ type HLT heater cables in ordinary and hazardous areas.

KIT CONTENTS
5 Wire Ties
2 Tubes of Silicone
5 Uninsulated Splice Connectors
10 Insulated Splice Connectors
5 Shrink Tubes, 13mm (0.5”) diameter, 152mm (6”) length

STRIPPING PROCEDURES

1. Unravel approximately 102mm (4”) of braid to form a ground strap.

2. Lightly cut around heater outer jacket 51mm (2”) from the end. Lightly cut the outer jacket up the center between the first cut mark & the cable end. Bend cable to break outer jacket.

3. Remove jacket from the heater cable.

4. Shave core material from the outside of each bus wire.

5. Starting at the end, pull each bus wire away from the core material and remove exposed core material.

6. Remove jacket from the heater cable.

7. Repeat steps 1-5 for all heater cables.

SHRINK TUBE PROCEDURES

1. Position three heater cables with the ground braid on the same side. Remove 32mm (1.25”) of bus wire from each heater cable to offset for the insulated splice connectors.

2. Slide a shrink tube over the single heater cable side. Twist bus wires together from the two heater cables and crimp into insulated splice connectors, then connect to the single heater cable.

3. Inject a generous amount of silicone between the two heater cables forming a moisture barrier.

4. Center the shrink tube over the connectors leaving the braid straps exposed. Shrink with heat gun until completely shrunk. A uniform bead of glue should appear around the ends of the shrink tube.

5. Fasten a wire tie around the two heater cables to hold in place.

6. If necessary, cut excess length from braid straps. Crimp the braid straps together into an uninsulated splice connector. Secure connector at the indented area with one and a half wraps of fiberglass tape (not included in kit).

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DESCRIPTION
The LT-MP Power End Termination Kit is for use with all versions of Nelson Heat Tracing Systems’ LT, CLT, HLT and NC heater cables. Compatible for use with any vendor’s heater cables smaller than 11mm (0.44”) diameter.

KIT CONTENTS
5 Power Terminations
1 Tube of Silicone

OVERJACKET PRODUCTS
For Braided Products proceed to step 4 below.

1. Lightly cut around heater overjacket 127mm (5”) from the end. Bend cable to break the overjacket.
2. Lightly cut overjacket up the center between first cut mark and the cable end. Bend cable to break the overjacket.
3. Remove overjacket from heater cable.
4. Move braid back toward the overjacket, creating a bulge.

5. At the bulge, separate the braid to make an opening.
6. While bending the heater cable, work it through the braid opening.
7. Pull the braid tight.
FOR ALL NELSON LT, CLT & HLT PRODUCTS
(See sheet 3 for an alternate method of HLT products.)

1. Lightly cut around cable outer jacket 102mm (4") from the end. Bend cable to break outer jacket.
2. Lightly cut the outer jacket up the center between the first cut mark & the cable end. Bend cable to break outer jacket.
3. Remove the jacket from the heater cable.
4. Shave the core material from the outside of each bus wire.
5. Starting at the end, pull each bus wire away from the core material.
6. Remove exposed core material.
7. Cut 6mm (0.25") off the end of each bus wire.

WARNING:
DO NOT CUT BUS WIRES
1. Lightly cut around cable outer jacket 102mm (4") from the end. Bend cable to break outer jacket.
2. Lightly cut the outer jacket up the center between the first cut mark & the cable end. Bend cable to break outer jacket.
3. Remove the jacket from the heater cable.
4. Make a cut inside each bus wire.
5. Starting at the end, in the same plane as the cable, pull each bus wire away from the core material.
6. Remove the exposed core material.
7. Remove the remaining core material off the outside of each bus wire.
8. Cut 6mm (0.25") off the end of each bus wire.
POWER TERMINATION

⚠️ WARNING:

- Bus wires must not touch or cross while inserting into power termination.
- Only power terminations / end seals specifically approved for the vendor’s style and type of heater cable must be

1. Insert bus wires into power termination.
2. Squeeze power termination opening and fill with silicone.
3. Push power termination to overlap jacket.
4. The silicone will set up in about 30 minutes with a complete cure after 24 hours.
5. Proceed to “Power Termination” on sheet 8.

⚠️ WARNING:

- Do not megger or hi-pot until silicone is completely cured.
- Braid must be kept away from bus wires or shorting will occur.
**DESCRIPTION**
The LT-P Small Pipe Adapter Kit is for use with PLT or LT connection kits to mount to small diameter pipes or tubes. Covers a size range up to 19mm (.75") tubing and 13mm (.50") pipe.

**KIT CONTENTS**
1. Small Adapter Plate
2. Pipe Clamps

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1. Install the small adapter plate with pipe clamps included in kit.
2. Mount stand-off with pipe clamps supplied in the PLT or LT connection kits.

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DESCRIPTION

KIT CONTENTS
- 5 Uninsulated Splice Connectors
- 10 Insulated Splice Connectors
- 5 Shrink Tubes, 13mm (0.5”) diameter, 152mm (6”) length
- 5 Shrink Tubes, 16mm (0.63) diameter, 229mm (9”) length

OVERJACKET STRIPPING PROCEDURES
For Braided “CB” Products proceed to step below.

⚠️ WARNING:
DO NOT CUT BRAID

1. Lightly cut around heater overjacket 89mm (3.5”) from the end. Bend cable to break the overjacket.
2. Lightly cut overjacket up the center between first cut mark and the cable end. Bend cable to break

3. Remove overjacket from heater cable.

4. Move braid back toward the overhacket, creating a bulge.

5. At the bulge, separate the braid to make an opening.

6. While bending the heater cable, work it through the braid opening.

7. Pull braid tight.
8. Repeat steps 1 - 7 for both heater cables.
OUTER JACKET STRIPPING PROCEDURES

1. Lightly cut around heater outer jacket 51mm (2") from the end. Bend cable to break outer jacket.
2. Lightly cut the outer jacket up the center between the first cut mark & the cable end. Bend cable to break outer jacket.
3. Remove jacket from the heater cable.
4. Shave core material from the outside of each bus wire.
5. Starting at the end, pull each bus wire away from the core material.
6. Remove exposed core material.
7. Repeat steps 1 - 6 for both heater cables.
8. Proceed to “Shrink Tube Procedures”, sheet 3

⚠️ WARNING: DO NOT CUT BUS WIRES
SHRINK TUBE PROCEDURES

1. Position both heater cables with the ground braid on the same side. Remove 32mm (1.25") of bus wire from each heater cable to offset for insulated splice connectors.

2. Slide one 13mm (0.5") diameter, 152mm (6") length shrink tube over one of the heater cables. Crimp an insulated splice connector to each bus wire connecting the two heater cables together.

*For Overjacket “JT” Products only: Slide one 16mm (0.63") diameter, 229mm (9") length shrink tube over the other heater cable. See diagram above.

3. Center the 13mm (0.5") diameter, 152mm (6") length shrink tube over the connectors leaving the braid straps exposed. Shrink with heat gun until completely shrunk. A uniform bead of glue should appear around the ends of the shrink tube.

If necessary, cut excess length from braid straps. Crimp the braid straps together into an uninsulated splice connector. Secure the connector at the indented area with one and a half wraps of fiberglass tape (not included in kit).

*For Overjacket “JT” Products only: Center the 16mm (0.63") diameter, 229mm (9") length shrink tube over the splice and braid connection. Shrink with heat gun until completely shrunk. A uniform bead of glue should appear around the ends of the shrink tube.
DESCRIPTION

KIT CONTENTS
5 Wire Ties
5 Mastic Strips
5 Uninsulated Splice Connectors
10 Insulated Splice Connectors
5 Shrink Tubes, 13mm (0.5”) diameter, 152mm (6”) length
5 Shrink Tubes, 16mm (0.63”) diameter, 229mm (9”) length

OVERJACKET STRIPPING PROCEDURES
For Braided “CB” Products proceed to step 4 below.

WARNING:
DO NOT CUT BRAID

1 Lightly cut around heater overjacket 89mm (3.5”) from the end. Bend cable to break the overjacket.
2 Lightly cut overjacket up the center between first cut mark and the cable end. Bend cable to break
3 Remove overjacket from heater cable.
4 Move braid back toward the overhacket, creating a bulge.
5 At the bulge, separate the braid to make an opening.
6 While bending the heater cable, work it through the braid opening.
7 Pull braid tight.
8 Repeat steps 1 - 7 for both heater cables.
OUTER JACKET STRIPPING PROCEDURES

1. Lightly cut around heater outer jacket 51mm (2") from the end. Bend cable to break outer jacket.
2. Lightly cut the outer jacket up the center between the first cut mark & the cable end. Bend cable to break outer jacket.
3. Remove jacket from the heater cable.
4. Shave core material from the outside of each bus wire.
5. Starting at the end, pull each bus wire away from the core material.
6. Remove exposed core material.
7. Repeat steps 1 - 6 for both heater cables.
8. Proceed to “Shrink Tube Procedures”, sheet 3

WARNING:
DO NOT CUT BUS WIRES
SHRINK TUBE PROCEDURES

1. Position three heater cables with the ground braid on the same side. Remove 32mm (1.25”) of bus wire from each heater cable to offset for the insulated splice connectors.

2. Slide one 13mm (0.5”) diameter, 152mm (6”) length shrink tube over the single heater cable side. Twist bus wires together from the two heater cables and crimp into insulated splice connectors, then connect to the single heater cable. Place a mastic strip between the two heater cables forming a moisture barrier.

3. Center the 13mm (0.5”) diameter, 152mm (6”) length shrink tube over the connectors leaving the braid straps exposed. Make sure the shrink tube covers the mastic strip. Shrink with heat gun until completely shrunk. A uniform bead of glue should appear around the ends of the shrink tube. Fasten a wire tie around the two heater cables to hold in place.

4. If necessary, cut excess length from braid straps. Crimp the braid straps together into an uninsulated splice connector. Secure connector at the indented area with one and a half wraps of fiberglass tape (not included in kit).

*For Overjacket “JT” Products only:

5. Center the 16mm (0.63”) diameter, 229mm (9”) length shrink tube over the splice and braid connection. Shrink with heat gun until completely shrunk. A uniform bead of glue should appear around the ends of the shrink tube.

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DESCRIPTION
The LT-T Tank Adapter Kit is for use with the PLT, ALT or LT connection kits for mounting on a vessel.

KIT CONTENTS
1. Tank Adapter Bracket
2. Tubes of Silicone

To insure proper mounting of the tank adapter bracket, select a convenient location.
Allow at least 457mm (18") of loose heater cable for each tank adapter bracket used.
Thoroughly clean mounting surface, approximately 6” sq., so that it is free of all foreign material.
Apply (1) tube of silicone to each foot of the tank adapter bracket and firmly press into place.

WARNING:
Allow 24 hours for silicone to dry before mounting stand-off to the tank adapter bracket.

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NELSON™ HEAT TRACING SYSTEMS
LT-ME END SEAL KIT
INSTALLATION
INSTRUCTIONS

DESCRIPTION
The LT-ME End Seal Kit is for use with all versions of Nelson Heat Tracing Systems’ LT, CLT, HLT and NC heater cables. Compatible for use with any vendor’s heater cables smaller than 11mm (0.44”) diameter. Minimum installation temperature –40°C (-40°F).

KIT CONTENTS
5 End Seals
1 Tube of Silicone

WARNING:
Only end seals specifically approved for the vendor’s style and type of heater cable must be used.

END SEAL INSTALLATION

For Braided Products:
Cut braid back 25mm (1”) & tape in place with fiberglass tape (not included in kit).

For Overjacket Products:
Remove 13mm (0.5”) of overjacket exposing the braid, then remove the 13mm (0.5”) of exposed braid.

Make a 10mm (0.4”) cut at the end of the heater cable.

Push end seal over the heater cable.

The end seal should overlap the overjacket.

The silicone will set up in about 30 minutes with a complete cure after 24 hours.

WARNING:
Do not meger or hi-pot until silicone is completely cured.
Braid must be kept away from bus wires or shorting will occur.

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