NELSON™

Ex Z1-ALT SERIES CONNECTION KITS

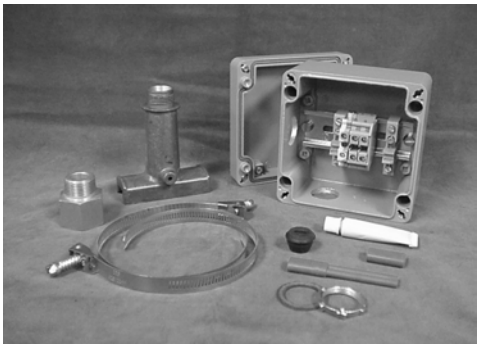
SELECTION GUIDE

Nelson's Z1-ALT Series connection kits are used for making power, end, splice, and tee-splice electrical connections for their LT-J and HLT-J heating cables installed in Zone 1 and Zone 2 classified (hazardous) locations. These metallic kits provide a degree chemical resistance and carry IP66/NEMA 4 environmental ratings.

Certifications:

Ex II 2 GD EEx e II –40ºC ≤ Tamb ≤ +55ºC
KEMA 03ATEX2020 X

Ex e II –40ºC ≤ Tamb ≤ +55ºC
CSA 1665370 / 1665383

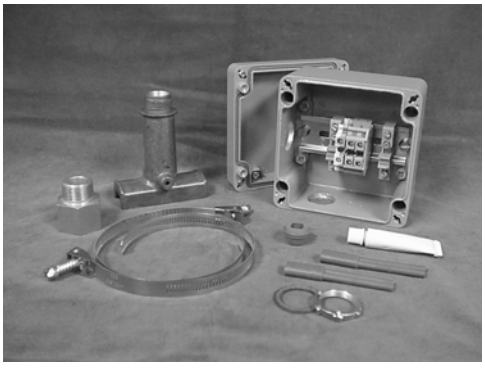


Z1-ALT-BC Power Connection Kit:

The Z1-ALT-BC Power Connection Kit is suitable for connecting heating cable to customer supplied power wiring.

Kit Contents:

1 Universal Base, Box Adapter, Sealing Gasket and Locknut
1 EEx e or Ex e Approved Enclosure with Terminal Blocks
1 Sealing Grommet
1 Power Termination and Cable End Seal
1 Adhesive Sealant
2 Stainless Steel Pipe Clamps

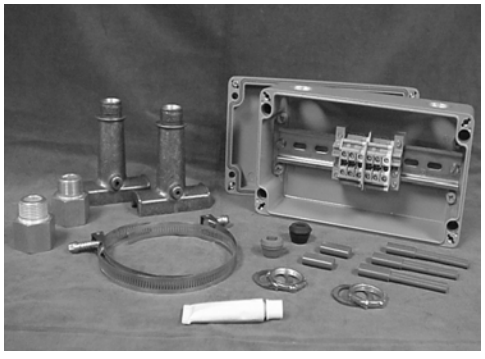


Z1-ALT-BS Splice Connection Kit:

The Z1-ALT-BS Splice Connection Kit is designed for connecting two heating cables in an in-line splice configuration.

Kit Contents:

1 Universal Base, Box Adapter, Sealing Gasket and Locknut
1 EEx e or Ex e Approved Enclosure with Terminal Blocks
1 Sealing Grommet
2 Power Terminations
1 Adhesive Sealant
2 Stainless Steel Pipe Clamps

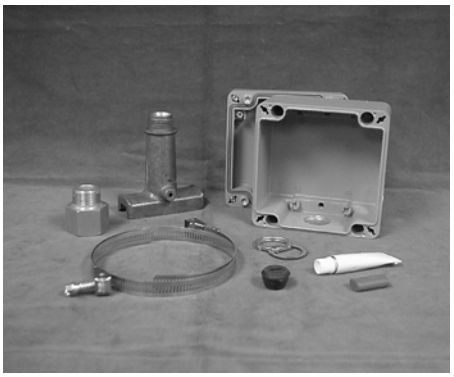


Z1-ALT-BY Tee Connection Kit:

The Z1-ALT-BY Tee Connection Kit is designed for connecting three heating cables in a tee splice configuration.

Kit Contents:

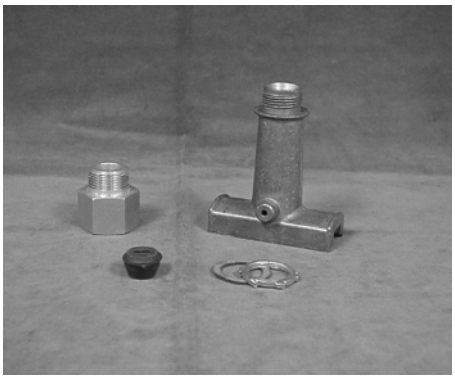
2 Universal Base, Box Adapter, Sealing Gasket and Locknut
1 EEx e or Ex e Approved Enclosure with Terminal Blocks
2 Sealing Grommets
3 Power Termination
2 Cable End Seal
1 Adhesive Sealant
2 Stainless Steel Pipe Clamps



Z1-ALT-E End Connection Kit:

The Z1-ALT-E End Connection Kit is suitable for terminating one heater cable outside of thermal insulation. This design allows future maintenance of the end seal.

Kit Contents:
1 Universal Base, Box Adapter, Sealing Gasket and Locknut
1 EEx e or Ex e approved Enclosure with Sealing Gasket and Cover
1 Sealing Grommet
1 Cable End Seal
1 Adhesive Sealant
2 Stainless Steel Pipe Clamps



Z1-ALT-LP Connection Kit:

The Z1-ALT-LP Connection Kit is suitable for connecting heating cable to customer supplied power wiring or as an in-line splice configuration utilizing a customer supplied enclosure[1].

Kit Contents:
1 Universal Base, Box Adapter, Sealing Gasket and Locknut
1 Sealing Grommet

Z1-ALT-LPM Connection Kit:

The Z1-ALT-LPM Connection Kit is suitable for connecting heating cable to customer supplied power wiring or as an in-line splice configuration utilizing a customer supplied enclosure[1]. This kit differs from the Z1-ALT-LP in that it also contains molded silicone cable terminations.

Kit Contents:
1 Universal Base, Box Adapter, Sealing Gasket and Locknut
1 Sealing Grommet
2 Power Termination and Cable End Seal
1 Adhesive Sealant
* Selection of –U grommet includes (1) additional power termination and (1) additional end seal for multiple cable entry.

Nelson's Z1-ALT Series metallic connection kits include all components necessary to complete the installation of Nelson's full line of heat tracing cables. The selection tables below allow for the proper specifying of the complete connection kit assembly (example: **Z1-ALT - BC –M25 - J - 12**).

Z1-ALT -

	SPECIFY PIPE SIZE*
3	19 – 75 mm
12	89 – 305 mm
20	317 – 508 mm

* Connection kit types LP and LPM do not include stainless steel pipe clamps

	SPECIFY CABLE CONSTRUCTION
J	Overjacketed Heater
U	Splice Connection Only

	CONNECTION METHOD
M25	M25 Metric Entries
75NPT	.75" NPT Entries

	SPECIFY KIT CONFIGURATION
BC	Power Connection
BS	Splice Connection
BY	Tee Connection
E	End Connection
LP	Power Connection w/o Junction Box[1]
LPM	Power Connection w/o Junction Box[1] w/Molded Terminations

[1] Suitable for use with any "EEx e" or "Ex e" approved industrial enclosure with a maximum wall thickness of 4.75 mm (0.187") or M25 (.75"NPT) threaded hubs.