

Motor Lead Connections

3M provides a convenient kit with sufficient material needed to quickly make lugged motor lead connections to feeder cables. Each kit makes three splices and is designed exclusively for the abrasion, moisture, grime and temperature extremes of the industrial environment. 3M™ Motor Lead Connectors meet requirements for CSA certification and NRTL certification.

Low Voltage Motor Leads—Pigtail and Inline for 1 kV

Motor lead pigtail connections (5300 through 5304) and inline splices (5311 through 5314) are designed to splice 1000 V or less, non-shielded feeder and motor lead cable. The splices are made with a slip-on lug cover made of EPDM rubber. Use with one-hole lug only. Each kit makes three splices.

Medium Voltage Motor Leads—Pigtail for Nonshielded 5–8 kV

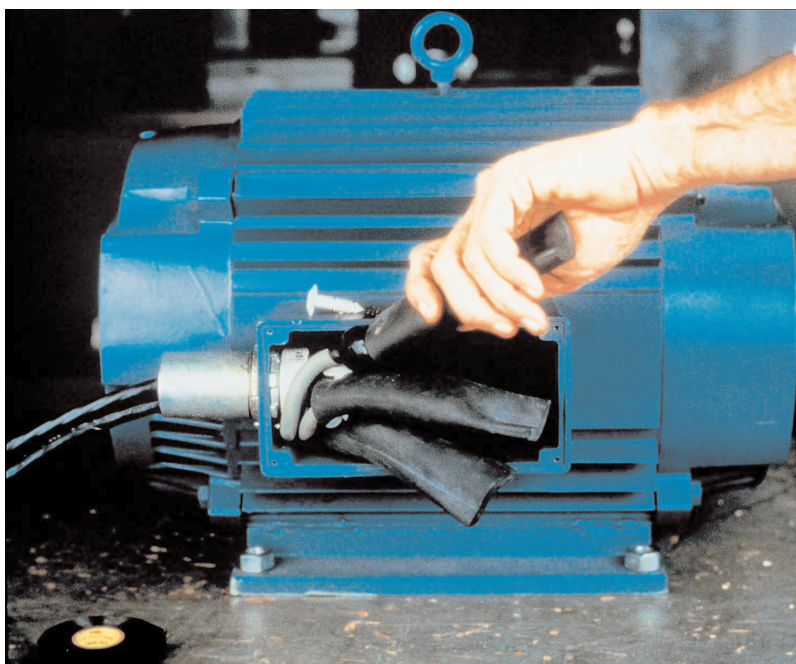
Motor lead pigtail connections (5316 through 5319) are designed to splice 5–8 kV non-shielded feeder and motor lead cables. The splices are made with a slip-on lug cover made of EPDM rubber. Use with one- or two-hole copper lugs. Each kit makes three splices.

Medium Voltage Motor Leads—Pigtail and Inline for 5–8 kV

Motor lead pigtail connections (5321 through 5324) and inline splices (5331 through 5334) are designed to splice 5–8 kV shielded (tape shield, wire shield and UniShield®) and non-shielded feeder cable. The splices are made with a slip-on lug cover made of EPDM rubber. Use with one- or two-hole lugs. Each kit makes three splices.

Medium Voltage Motor Leads with High-K Stress Control—Pigtail or V-Stub Splice for 5–8 kV Shielded and Nonshielded Cables

3M™ Motor Lead Splicing Kits 5380 Series are designed for splicing motor lead cables to incoming feeder cables. These kits are removable and reusable. These kits can accommodate pigtail (stub) connections, 5/8 kV shielded and non-shielded feeders. The splice's main component, the lug cover, is made from



EPDM rubber as a slip-on insulator. Mastic is used for the moisture seal on the pigtail kits. The kits utilize a high dielectric constant (K) stress control termination and slip-on lug cover for the feeder cable's electrical stress control.

These kits are designed to be used with copper compression lugs. After being crimped onto the cables, the lugs are bolted together, then insulated and sealed with the 3M™ Motor Lead Splicing Kits. Each kit contains all the necessary materials (except lugs) needed to make three splices. The lugs must be purchased separately. 3M™ Scotchlok™ Copper Compression Lugs 30000 Series, or other UL listed copper lugs, can be used.

Section	Page
Low Voltage Motor Leads, 1 kV and less	331-332
3M™ Motor Lead Pigtail Splice Kits, 1-Hole Lug Connections, 5300–5304	331
3M™ Motor Lead Inline Splice Kits, 1-Hole Lug Connections, 5311–5314	332
Medium Voltage Leads, 5–8 kV	333-336
3M™ Motor Lead Pigtail Splice Kits, Non-Shielded Pigtail, 5316-5319	333
3M™ Motor Lead Pigtail Splice Kits, Shielded and Non-Shielded Cables, 5321-5324.....	334
3M™ Motor Lead Inline Splice Kits, Non-Shielded and Shielded Cables, 5331- 5334.....	335
3M™ Motor Lead Pigtail or V-Stub Splice, Shielded and Non-Shielded Cable, 5380 Series.....	336

Medium Voltage Leads, 5–8 kV

3M™ Motor Lead Pigtail Splice Kits, Shielded and Non-Shielded Cables, 5321-5324

3M™ Motor Lead Pigtail Splicing Kits 5300 Series are designed for splicing motor lead cables to incoming feeder cables. These kits can accommodate pigtail (stub) connections of 5/8 kV with shielded feeders. The splice's main component, the slip-on splice cover, is made from EPDM rubber. A mastic strip is used for the moisture seal.

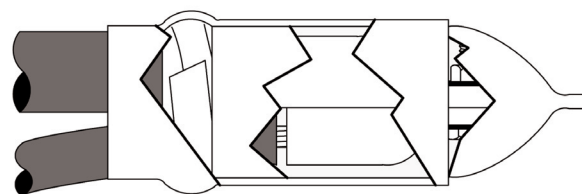
These kits are designed to be used with copper compression, one- or two-hole lugs. After being crimped onto the cables, the lugs are bolted together in a pigtail configuration, then insulated and sealed with the 3M™ Motor Lead Splicing Kits. Each kit contains the necessary materials (except lugs) needed to make three splices. The lugs must be purchased separately. 3M™ Scotchlok™ Copper Compression Lugs 30000 Series, or other UL listed copper lugs, can be used.

Note: 3M™ Motor Lead Kits 5321-5324 also require vinyl tape which is not included.

Kit contents include

- ♦ (3) Pigtail lug covers
- ♦ (3) Cold Shrink tubes
- ♦ (9) Mastic sealing strips
- ♦ (3) Rolls Scotch® Stress Control Tape 2200
- ♦ (3) Bags of solvent cleaning cloths
- ♦ (3) Tubes of silicone grease
- ♦ (3) Rolls Scotch® Linerless Rubber Splicing Tape 130C
- ♦ (3) Instruction sheets

Voltage	5/8 kV
Cable/Shielding Type	Tape Shield, Wire Shield, UniShield®
Connection Type	Pigtail (Shielded and Non-Shielded)
RoHS 2011/65/EU	Yes



5321 Pigtail

Order No.	UPC	Feeder Cable Wire Range	Motor Lead Cable Wire Range	Max. Bolt Length	Insulation O.D.	Lug Cover Length	Case Qty.
5321	054007-12271	8–4 AWG	10–4 AWG	1/2" (12,7 mm)	0.30"–0.51" (7,6–13,0 mm)	7"–8" (177,8–203,2 mm)	1
5322	054007-12272	2–1/0 AWG	4–1/0 AWG	3/4" (19,1 mm)	0.43"–0.65" (10,9–16,5 mm)	8"–9" (203,2–228,6 mm)	1
5323	054007-12273	1/0 AWG–250 kcmil	2 AWG–250 kcmil	1-1/4" (31,8 mm)	0.53"–0.88" (13,5–22,4 mm)	9"–10" (228,6–254,0 mm)	1
5324	054007-12274	250–500 kcmil	4/0 AWG–500 kcmil	1-1/2" (38,1 mm)	0.75"–1.12" (19,1–28,4 mm)	10.5"–11.5" (266,7–292,1 mm)	1