### 3M

## **Motor Lead Connections**

3M provides a convenient kit with everything 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.\*



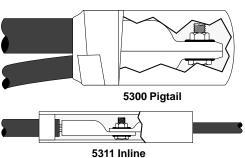
#### Single Conductor Cable

### 3M Nonshielded Cable Motor Lead Connections—Pigtail and Inline for 1 kV

3M motor lead pigtail connections (5300 through 5304, copper 1 hole lugs only) and inline splices (5311 through 5314) are designed to splice 1000V or less, nonshielded feeder and motor lead cable. The splices are made with a slip-on lug cover made of EPDM rubber. Each kit makes three splices.

\*NRTL = CSA approved for use in the United States.





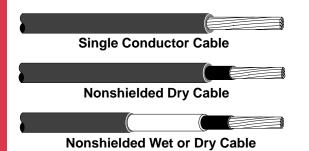
#### Specifications and Ordering Information for 1 kV 3M Motor Lead Connections

Product Number	5300	5301	5302	5303	5304	5311	5312	5313	5314
Cable Type	Single Conductor Cable. See above for cable type illustration.  Each kit makes three splices								
			Pigtail				l I	nline	
Kit contents:									
Pigtail-Lug Covers	•	•	•	•	•	_	_	_	_
Inline-Splice Covers	_	_	_	_	_	•	•		
Locking Pins	_	_	•	•	•	_	_	_	_
Mastic Sealing Strips	•	•	•	•	•	_	_	_	_
Silicone Grease Lubricant	•	•	•	•	•	•	•		•
Adapter Sleeves	_	_	_	_	_	•	•		•
Instructions	•	•	•	•	•	•	•	•	
Specifications:									
Suggested Lug	Copper 1-hole	Copper 1-hole	Copper 1-hole	Copper 1-hole	Copper 1-hole	Copper 1-hole	Copper 1-hole	Copper 1-hole	Copper 1-hole
Feeder	14-10 AWG (2,5-4 mm²)	10-4AWG (6-16 mm²)	2-1/0 AWG (35-50 mm²)	1/0 AWG- 250 kcmil (60-120 mm²)	250-500 kcmil (150-240 mm²)	10-4 AWG (6-16 mm²)	2-1/0 AWG (35-50 mm²)	1/0 AWG- 250 kcmil (60-120 mm²)	250-500 kcmil (150-240 mm²)
Motor Lead	16-12 AWG (1,5-2,5 mm²)	12-4 AWG (4-16 mm²)	4-1/0 AWG (25-50 mm²)	2 AWG- 250 kcmil (35-120 mm²)	4/0 AWG- 500 kcmil (120-240 mm²)	12-4 AW (4-16 mm²)	4-1/0 AWG (25-50 mm²)	2 AWG- 250 kcmil (35-120 mm²)	4/0 AWG- 500 kcmil (120-240 mm²)
Lug Cover* ID	.45" (11 mm)	.70" (18 mm)	.95" (24 mm)	1.2" (30 mm)	1.7" (43 mm)				
CSA File #LR 77372-2	<b>(P</b>	<b>(1)</b>	<b>®</b>	<b>(P</b>	<b>(P</b>	<b>(</b>	<b>(P</b>	<b>(P</b>	<b>(P</b>
Ordering Information	on 5300	5301	5302	5303	5304	5311	5312	5313	5314
UPC (054007-)	08317	12263	12264	12265	12266	12267	12268	12269	12270
Case Qty. (3 splices/kit)	1 kit	1 kit	1 kit	1 kit	1 kit	1 kit	1 kit	1 kit	1 kit

Note: Lugs not included in kits.

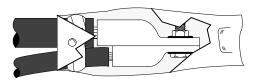
<sup>\*</sup>Lug Cover ID: use when calculating kit sizing for a connection of more than two conductors (e.g. 3-way, 4-way, etc. Use of one-hole stacking lugs is recommended.)

#### 3M™ Motor Lead Connections— Pigtail for Nonshielded 5 and 8 kV Cable



3M motor lead pigtail connections (**5316 through 5319**) are designed to splice up to **5 to 8 kV** nonshielded feeder and motor lead cables. The splices are made with a slip-on lug cover made of EPDM rubber. Use with 1- or 2-hole copper lugs. Each kit makes three splices.





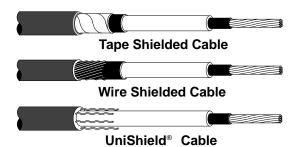
Pigtail Nonshielded

#### Specification and Ordering Information for Nonshielded 5 and 8 kV 3M Motor Lead Connections

Product Number	5316	5317	5318	5319		
Cable Type	Single Conducto	Single Conductor Cable, Nonshielded Dry Cable, Nonshielded Wet or Dry Cable See above for cable type illustration.				
	Each kit makes three splices					
	Nonshielded Cable					
Kit contents:						
Pigtail-Lug Covers	•	•	•	•		
Locking Pins	•	•	•	•		
Mastic Sealing Strips	•	•	•	•		
Solvent Cleaning Cloths	•	•	•	•		
Silicone Grease Lubricant	•	•	•	•		
Cold Shrink Sleeves	_	_	_	_		
Scotch® 2220 Stress Control Tape	_	_	_	_		
Rubber Tape	•	•	•	•		
Adapter Sleeves	_	_	_	_		
Instructions	•	•	•	•		
Specifications:						
Suggested Lug	Copper 1 or 2 hole	Copper 1 or 2 hole	Copper 1 or 2 hole	Copper 1 or 2 hole		
Feeder	8 - 4 AWG (10 - 16 mm²)	2 - 1/0 AWG (35 - 50 mm²)	1/0 AWG - 250 kcmil (60 - 120 mm²)	250 - 500 kcmil (150 - 240 mm²)		
Motor Lead	10 - 4 AWG (6 - 16 mm²)	4 - 1/0 AWG (25 - 50 mm²)	2 AWG - 250 kcmil (35 - 120 mm²)	4/0 AWG - 500 kcmil (120 - 240 mm²)		
CSA File #LR 77372-2	<b>®</b>	<b>(3P</b>	<b>(9</b> )	<b>(3P</b>		
Ordering Information	5316	5317	5318	5319		
JPC (054007-)	08313	08314	08315	08316		
Case Qty. (3 splices/kit)	1 kit	1 kit	1 kit	1 kit		

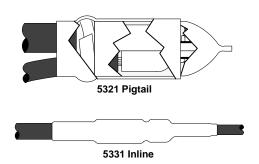
**Note:** Lugs not included in kits. continued on next page

# 3M™ Shielded Cable Motor Lead Connections—Pigtail and Inline for 5 and 8 kV



3M motor lead pigtail connections (5321 through 5324 copper lugs only) and inline splices (5331 through 5334) are designed to splice 5 to 8 kV shielded (Tape or Wire Shielded and UniShield®) and nonshielded feeder cable. The splices are made with a cold shrink lug cover of EPDM rubber. Use with 1 or 2 hole lugs. Each kit makes three splices.

Product Referral General	tor
Taping  - Scotch® Super 33+pg.  - Scotch® Super 88pg.	3 3
Connectingpg. Insulating	22
- Cold Shrink	285 10



#### Specifications and Ordering Information for Shielded 5 and 8 kV 3M Motor Lead Connections (continued)

Product Number	5321	5322	5323	5324			
Cable Type	Tape Shielded Cable, Wire Shielded Cable, UniShield® Cable See above for cable type illustration.						
	Each kit makes three splices						
	Shielded Cable						
Kit contents:							
Pigtail-Lug Covers	•	•	•	•			
Mastic Sealing Strips	•	•	•	•			
Solvent Cleaning Cloths	•	•	•	•			
Silicone Grease Lubricant	•	•	•	•			
Cold Shrink Sleeves	•	•	•	•			
Scotch® 2220 Stress Control Tape	•	•	•	•			
Rubber Tape	•	•	•	•			
Instructions	•	•	•	•			
Specifications:							
Suggested Lug	1 or 2 hole	1 or 2 hole	1 or 2 hole	1 or 2 hole			
Feeder	8 - 4 AWG (10 - 16 mm²)	2 - 1/0 AWG (35 - 50 mm²)	1/0 AWG - 250 kcmil (60 - 120 mm²)	250 - 500 kcmil (150 - 240 mm²)			
Motor Lead	10 - 4 AWG (6 - 16 mm²)	4 - 1/0 AWG (25 - 50 mm²)	2 AWG - 250 kcmil (35 - 120 mm²)	4/0 AWG - 500 kcmil (120 - 240 mm²)			
CSA File #LR 77372-2			<b>SP</b>	<b>(\$</b>			
Ordering Information	5321	5322	5323	5324			
JPC (054007-)	12271	12272	12273	12274			
Case Qty. (3 splices/kit)	1 kit	1 kit	1 kit	1 kit			

continued on next page

Note: Lugs not included in kits. For replacement parts, see next page.

#### Specifications and Ordering Information for Shielded 5 and 8 kV 3M™ Motor Lead Connections

Product Number	5331	5332	5333	5334			
Cable Type	Tape Shielded Cable, Wire Shielded Cable, UniShield® Cable See page 299 for cable type illustration.						
	Each kit makes three splices						
		Shielded Cable					
Kit contents:							
Solvent Cleaning Cloths	•	•	•	•			
Silicone Grease Lubricant	•	•	•	•			
Cold Shrink Sleeves	•	•	•	•			
Scotch® 2220 Stress Control Tape	•	•	•	•			
Rubber Tape	•	•	•	•			
Adapter Sleeves	•	•	•	•			
Instructions	•	•	•	•			
Specifications:							
Suggested Lug	1 or 2 hole	1 or 2 hole	1 or 2 hole	1 or 2 hole			
Feeder	8 - 4 AWG (10 - 16 mm²)	2 - 1/0 AWG (35 - 50 mm²)	1/0 AWG - 250 kcmil (60 - 120 mm²)	250 - 500 kcmil (150 - 240 mm²)			
Motor Lead	10 - 4 AWG (6 - 16 mm²)	4 - 1/0 AWG (25 - 50 mm²)	2 AWG - 250 kcmil (35 - 120 mm²)	4/0 AWG - 500 kcmil (120 - 240 mm²)			
CSA File #LR 77372-2	<b>(f)</b>	<b>(3)</b>	<b>®</b>	<b>S</b>			
Ordering Information	5331	5332	5333	5334			
UPC (054007-)	12275	12276	12277	12278			
Case Qty. (3 splices/kit)	1 kit	1 kit	1 kit	1 kit			

Note: Lugs not included in kits.

Motor lead replacement tubes are designed to allow for re-use of  $3M^{\sim}$  pigtail splicing kits 5320 series. Each kit contains:

- · A cold shrink tube
- Mastic strips
- Rubber tape
- Silicone grease, which permits the reinstallation of the pigtail boots

## Ordering Information for Motor Lead Replacement Kits

<b>Product Number</b>	UPC (054007-)	Replacement Tube
5321	44174	MLRT-21
5322	44175	MLRT-22
5323	44176	MLRT-23
5324	44177	MLRT-24