

Cold-applied motor connection kits



GelCap

Motor connector kit (1000V)

GelCap motor connector kits quickly and conveniently insulate, seal, and protect stub splice connections up to 1000 volts. The robust yet compact design was engineered to handle the harsh environment of motor connections. GelCap connector kits are equally well suited to many other connection applications including street light connections.

The specially formulated material provides excellent abrasion resistance, insulation value, and UV resistance. In addition, the cap is clear to allow visual inspection of connector positioning during installation and connector performance during service life. Each cap size is designed to fit a wide range of cable sizes. The expandable design keeps the cap as small as possible and allows it to expand only as much as needed to fit on large cable.

Gelcap connector kits provide the fastest installation. Simply push the cover down over the connection and snap the clamp closed. No extra materials or greases are required. The PowerGel sealing gel is already in the cap.

Common uses for GelCap connector kits

- Street lights
- Over wire nuts for sealing
- Irrigation systems
- HVAC
- Outdoor lighting

120

Selection information (dimensions in inches/millimeters)

Catalog number	Feeder Conductor Size (mm ²)	Max. Bolt Dimensions		Max. Lug Dimensions		Cap length (nominal)
		Width (A)	Length (B)	Total Length (C)	Barrel Length (D)	
GelCap 1*	#16 – #10 AWG (1.5 – 5)	.375 (10)	.500 (13)	1.00 (25)	0.5 (13)	2.8 (71)
GelCap 2	#8 – #2 AWG (8 – 35)	.625 (16)	1.00 (25)	2.00 (51)	1.0 (25)	3.5 (89)
GelCap 3	#2 – #4/0 AWG (35 – 105)	.850 (22)	1.30 (33)	3.00 (76)	1.5 (38)	6.0 (152)
GelCap 4	250 – 500 kcmil (125 – 250)	1.100 (28)	1.85 (47)	5.00 (127)	2.0 (51)	8.0 (203)

* For wire sizes #16 – #10 the unique design of the GelCap motor connector 1 kit saves space by allowing all three phase connections to be installed in one cover.

For cold applied in-line splices see GelWrap splice closure, page 28 GILS, page29, or RVS, page30.

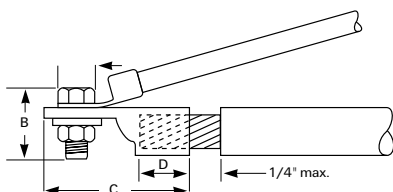
Product Performance

The Tyco Electronics' GelCap connector kit meets the following requirements:

Testing	Test Conditions
Chemical Resistance	ASTM D543, Sulfuric acid, Sodium hydroxide, Transformer and motor oil
Ozone Resistance	ASTM D1149, 120 hours @40°C, 50pphm
Accelerated Aging	ASTM D2671
UV Resistance	ASTM G154, UVB, 4000 hours, 4 hour on/off cycle
Abrasion Resistance	2040 gm wt., 4000 cycles, 5% max thickness loss

Ordering information

1. Select appropriate catalog number based on the motor feeder cable, motor pigtail leads of the same size or smaller are suitable. GelCap connector kit selections are based on typical dimensions of low-voltage insulated cable.
2. Kits do not contain connectors.
3. Kit contents: GelCap - 1, One gel filled cap, one cap clamp, and one phase separator. Kit is designed for 3 phases in one cap. GelCap -2, 3, 4: three gel filled caps and three cap clamps.
4. Standard package: 5 kits/box
5. Related Product Information: [EDR-5334](#) Test Report



600 V/105°C