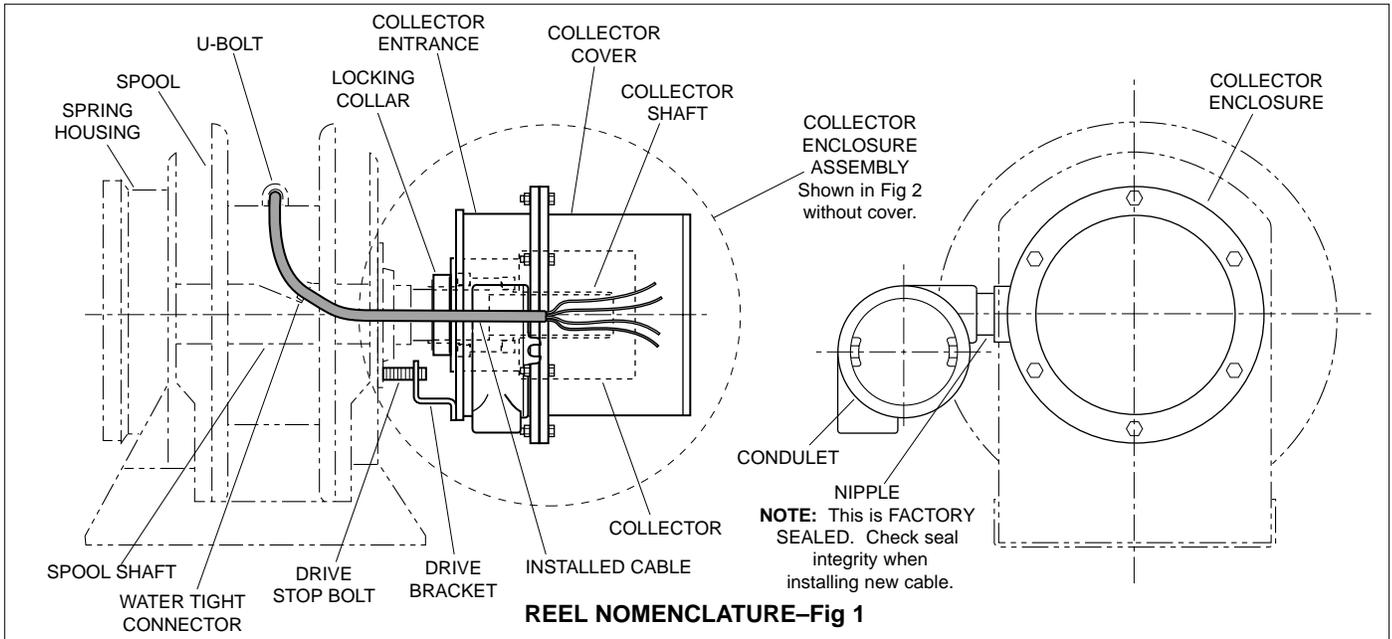


INSTRUCTIONS SEALING HAZARDOUS DUTY CABLE REELS

These instructions are for FIELD sealing of reels when installing cable. Follow these instructions carefully to comply with N.E.M.A. hazardous location standards for class I group D, class II groups E, F & G and class III.



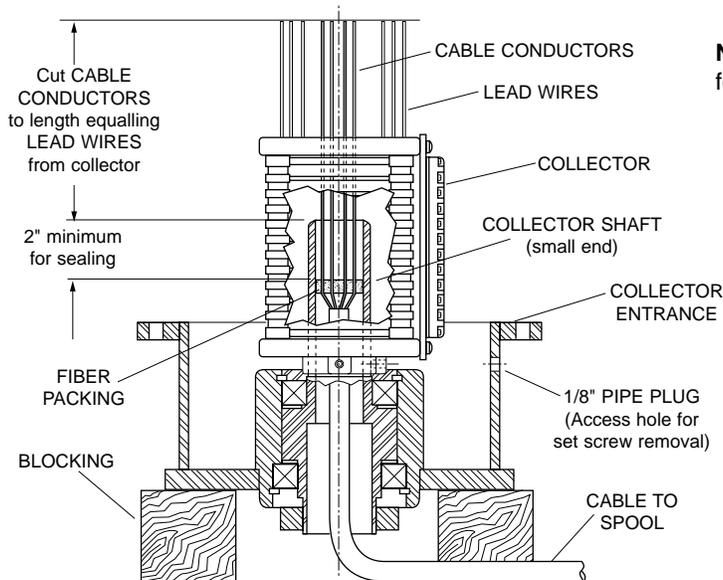
⚠ WARNING

Read and thoroughly understand this entire bulletin before you begin. Carefully read and follow the directions supplied with the sealing compound. Failure to properly follow these instructions could lead to property damage, personal injury or death.

FIELD SEALING PROCEDURE-NEW REEL

NOTE: If replacing cable, refer to REMOVING OLD CABLE section on opposite side of this sheet.

1. Loosen U-bolt on spool. Insert end of new cable thru U-bolt and out thru collector shaft (FIG. 1). Feed extra cable thru shaft to allow for removal of Collector Enclosure Assembly.

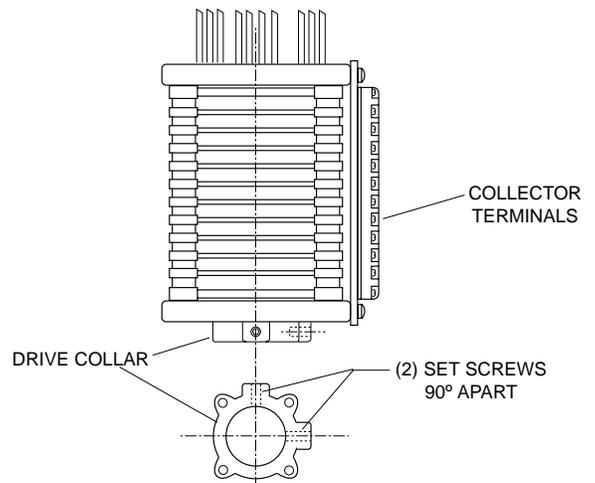


2. Remove Collector Cover and disconnect power supply (CONDULET) lead wires from the collector terminals.
3. Loosen Locking Collar on back side of Collector Entrance (between collector and reel body). Slide Collector Enclosure Assembly (including collector, collector shaft and collector entrance) off spool shaft. Stand assembly upright on blocks (Figs 1 & 2).
4. Strip cable so that individual conductors can extend from beneath fiber packing to collector ring lead wires. Cut cable conductors to equal length of collector lead wires.

NOTE: Only conductors (wires) must be enclosed in sealing compound. **The cable jacket must be stripped away**, allowing enough length for the conductors to be separated prior to passing thru the packing and sealing compound (Fig 2).

5. Remove 1/8" Pipe Plug in Collector Entrance. Rotate Drive Collar to align set screws with access hole. Loosen two set screws and remove Collector (Figs 2 & 3).

NOTE: A long "T" handle 1/8" Allen wrench is recommended for loosening of set screws.

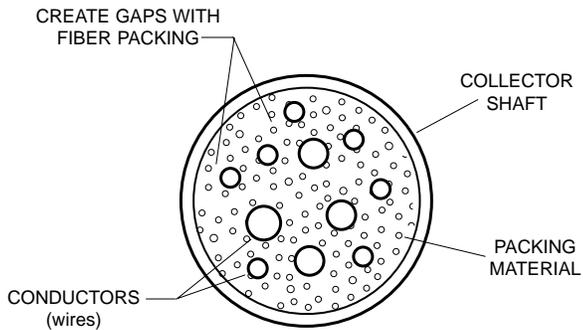


6. Thoroughly clean the inside of the Collector Shaft where the compound is to seal.

CAUTION

All sealing must be done with the Collector Shaft in the VERTICAL position.

7. Pack the small end of the Collector Shaft so the fiber packing is recessed 2" to 3" from the end. Make certain no conductors are touching each other or the sides of the shaft (Figs 2 & 4).



CONDUCTOR (wire) SPACING—Fig 4

CAUTION

Be sure no wires are touching each other or the inside of the shaft.

8. Mix and pour sealing compound according to directions provided with compound.
9. Allow sealing compound to cure for a full 30 minutes.
NOTE: Reassembling reel or moving assembly prior to 30 minutes may loosen wires or crack sealing compound.
10. Reassemble reel by reversing steps 3 & 5. Be sure to firmly tighten locking collar onto spool shaft and ensure that drive bolt is engaged in the drive bracket (Fig 1).
11. Reconnect power supply lead wires from condulet to collector terminals.
12. Carefully reassemble collector cover to collector entrance using original fasteners. Be certain the mating surfaces of the mounting flanges are clean and without dents or deep scratches. **DO NOT use damaged components.** Replace enclosure if damaged. Torque 3/8" mounting screws as follows:
 - SAE Grade 2 Screws.....20 lbs-ft (dry)
 - SAE Grade 5 Screws.....30 lbs-ft (dry)

Screw grade can be identified by markings on the head; Grade 2 screws have no markings and Grade 5 screws have three equally spaced radial lines.
13. Inspect interface between collector entrance flange and collector cover flange all around with a feeler gauge. If a gap greater than 0.002" exists, loosen all screws and check for dirt or other foreign matter between flange surfaces. Retighten screws in alternating order to torque specs.



CAUTION

Do not use reel until sealing compound has cured a full 72 hours.

14. Allow sealing compound to set per manufacturer's instructions. Install cable on reel following Installation and Maintenance Instructions provided with the reel.

WARNING

Both nipple and collector shaft must have good seals to meet N.E.M.A hazardous location standards. Always check integrity of seal in nipple when replacing cable. Reseal nipple if seal appears cracked or wires appear loose. Contact factory for more information.

15. Install reel following Installation Instructions that accompanied reel.

REMOVING OLD CABLE

Follow this procedure for replacing cable on a sealed reel. This procedure is not necessary when installing cable on a new reel.

1. Turn off all electrical power to reel.

WARNING

Always open all breakers or disconnect electrical power to reel. Failure to turn off electrical power could lead to serious injury or death.

2. Unspool old cable following procedure in Installation and Maintenance Instructions provided with reel.
3. Loosen U-bolt on spool so that cable may be pulled thru when collector enclosure is removed.
4. Remove Collector Cover and disconnect power supply (CONDULET) lead wires from the collector terminals.
5. Disconnect cable conductors from collector lead wires.
6. Loosen Locking Collar on back side of Collector Entrance (between collector and reel body). Slide Collector Enclosure Assembly (including collector, collector shaft and collector entrance) off spool shaft. Stand assembly upright on blocks (Figs 1 & 2, over).
7. Remove 1/8" Pipe Plug in Collector Entrance. Rotate Drive Collar to align set screws with access hole (2 set screws, 90° apart). Loosen set screws and remove Collector (Figs 2 & 3).
NOTE: A long "T" handle 1/8" Allen wrench is recommended for loosening set screws.
8. Use a chisel to chip sealing compound out of inside of collector shaft. Remove packing and cable.
9. Install and seal new cable as described in steps #4 through #13, "FIELD SEALING PROCEDURE-NEW REEL". Also refer to the Installation and Maintenance Instructions supplied with your cable reel.

Gleason Reel Corp.

600 S. Clark St.
Mayville, Wisconsin 53050-0026
Phone 920-387-4120 • FAX 920-387-4189