

## Installation Instructions for OCA Series Comealongs for Optical Ground Wire (OPGW)

### General

OPGW Comealongs are stringing tools designed for pulling optical ground wire up to initial sag tensions. If the required tension is greater than the rated tension of a single comealong, two or more comealongs should be used (refer to Installation Instructions). When desired sag tension is reached, the cable should be dead ended promptly and the comealong removed.

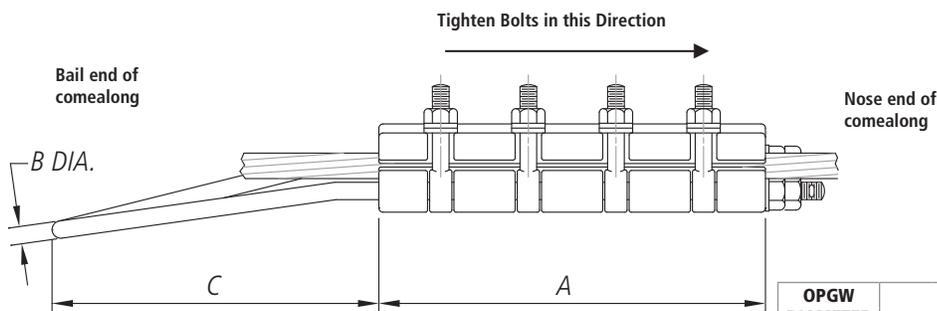
Comealongs must receive periodic maintenance. This practice should consist of a thorough cleaning with close inspection for nicked or rough cable grooves, cracked body, bent eye bolts, or damaged bail. The eyebolts should be kept clean and oiled. The cable groove should be kept clean and dry. After each six months use and at the beginning of each job, all comealongs should be subjected to a pull test equal to its rated strength. If any damage is found, the comealong should be disposed of properly.

### Unused Comealongs

- Loosen bolts so that the comealong may be opened sufficiently. Check for cleanliness of bore and permit conductor entry into the conductor groove.
- Position the comealong a minimum of 10 feet from the dead end or joint being installed. This will assist in reducing the potential for birdcaging of the conductor during compression.
- Place the conductor into the conductor groove of the comealong, then close the comealong and finger tighten the bolts.
- Using a torque wrench, tighten bolts in sequence from bail end to nose of the comealong (see diagram below). It will take a minimum of 6 passes to achieve the correct torque on each bolt. On the first pass, tighten the bolts to 80% of the target torque (1/2" bolt - 32 lb ft, 5/8" bolt - 48 lb ft). On each subsequent pass, tighten the bolts to the target torque (1/2" bolt - 40 lb ft, 5/8" bolt - 60 lb ft), ensuring proper clamping force is achieved.

### Used Comealongs

- Before each job, thoroughly clean the comealong and closely inspect for nicked or rough conductor grooves, cracked body, bent eye bolts, or damaged bail. If any damage is found, the comealong should be disposed of properly.
- After cleaning, each comealong should be subjected to a pull test equal to the rated strength stamped on the comealong.
- Follow sequence 1 through 4 for Unused Comealongs above.



OPGW DIAMETER RANGE (IN.)	EYEBOLTS		DIMENSIONS						WEIGHT	
	DIA.	NO.	A		B		C		LB.	KG
0-.820	1/2"	4	11	279	.5	13	8	203	9	4.08
.821-1.000	5/8"	4	12.5	318	.62	16	8	203	16	7.26

**LOAD RATING:** Maximum tension limit is 50% of the rated strength of the OPGW or 5,000 pounds, whichever value is smaller.

**WARNING:** Comealongs are not intended for use as dead ends and are not recommended to hold conductors at sag tension limits for longer than 6 hours.

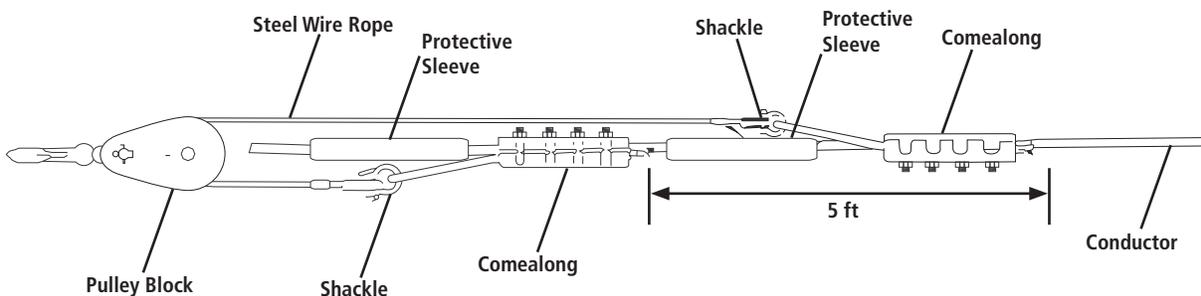
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### Using Comealongs in Tandem

If the installation tension is greater than the rated strength of one comealong, then comealongs must be used in tandem. The comealong bails should be bridled with a sling (consisting of shackles and wire rope) and pulley block to insure equal distribution of the load. To prevent damage to the conductor by the shackles, place protective sleeves over the conductor (per drawing below).

The rated strength of this tandem configuration is 150% of the lowest rated comealong. For example, if one comealong is rated for 8,000 lbs and the other rated for 10,000 lbs, then these two comealongs in tandem will have a rated strength of 12,000 lbs (150% of 8,000 lbs).

For more information on using comealongs in tandem, contact the ACA Technical Support Team at 1.800.866.7385.



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