

CORNING

RPX® Gel-Free Ribbon Cable and FlexNAP™ System Cable Suspension Clamp Installation Instructions

P/N 003-136
Issue 2

related literature |

005-081 Instruction, FlexNAP™ System RPX® Cable Assembly Placing-Self-supporting Aerial

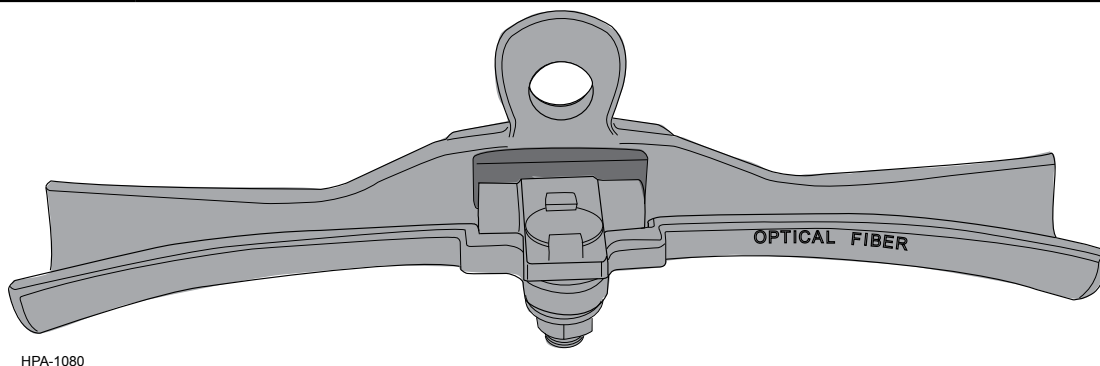


Figure 1

1. General

1.1 This procedure provides general instructions for the Corning Optical Communications RPX® Cable Suspension Clamp (p/n RPX-SUSP-H1) (Figure 1) for RPX Gel-free Ribbon and FlexNAP™ System RPX Cables used in a self-supporting aerial installation.

1.2 This procedure assumes that the installer is familiar with aerial cable placement and all relevant safety practices. Refer to the FlexNAP System RPX Cable Assembly Placing Self-supporting Aerial SRP (005-081) for tensioning RPX Cable. The maximum rated installation tension for the RPX Cable is 350 lb (1550 N).

2. Precautions

2.1 General Safety Precautions



CAUTION: Before starting any outside plant cable installation, all personnel must be thoroughly familiar with all applicable Occupational Safety and Health Act (OSHA) regulations, the National Electrical Safety Code (NEC), state and local regulations, and company safety practices and policies. Failure to do so can result in life-threatening injury to employees or the general public.

2.2 Personal Protective Equipment



CAUTION: To minimize the chance of accidental injury, use safety glasses (spectacles) conforming to ANSI Z87 for eye protection, safety gloves, protective head gear, and all other personal protective equipment required by your company and applicable federal and state OSHA regulations.

2.3 Cable Handling Precautions



CAUTION: Fiber optic cable is sensitive to excessive pulling, bending and crushing forces. Consult the cable specification sheet for the cable you are installing. Do not bend the cable more sharply than the minimum recommended bend radius. Do not apply more pulling force to the cable than specified. Do not crush the cable or allow it to kink. Doing so may cause damage that can alter the transmission characteristics of the cable; the cable may have to be replaced.

2.4 Laser Handling Precautions



WARNING: Never look directly into the end of a fiber that may be carrying laser light. Laser light can be invisible and can damage your eyes. Viewing it directly does not cause pain. The iris of the eye will not close involuntarily as when viewing a bright light. Consequently, serious damage to the retina of the eye is possible. Should accidental eye exposure to laser light be suspected, arrange for an eye examination immediately.

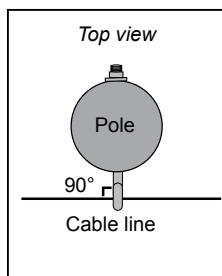
3. Tools and Materials

In addition to cable placing hardware approved by your company, the following tools and materials are required for this procedure:

- Pole-mounting hardware — 14.5 mm (9/16 in) J-hook or a bolt/eye-nut combination with shackle
- 13 mm (0.5 in) wrench or tool

4. Suspension Clamp Installation

NOTE: The J-hooks for the suspension clamps must be placed into the pole perpendicular to the cable line (see inset on left side of Figure 2).



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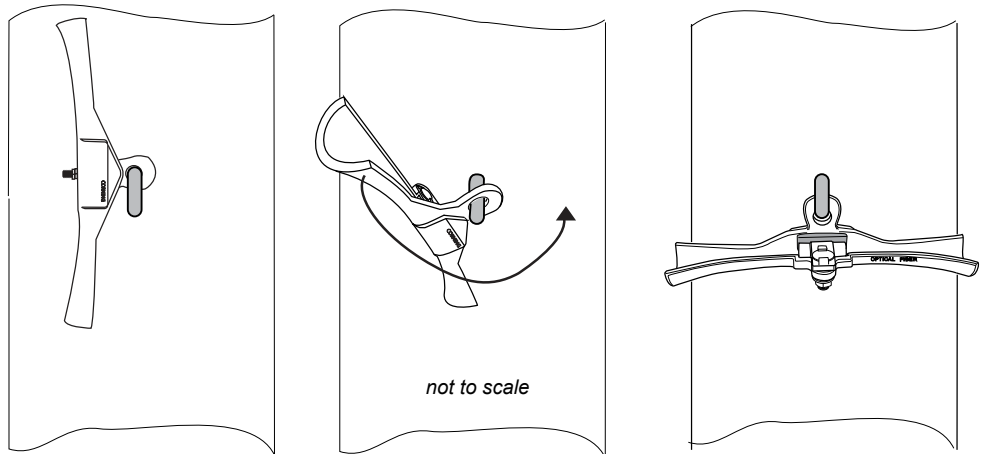
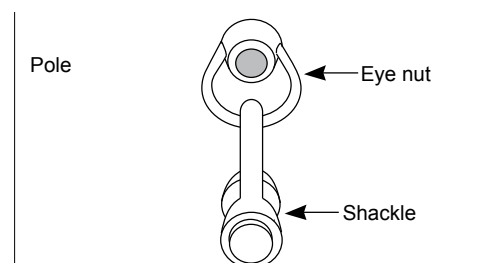


Figure 2

Step 1: With the “back” or “CORNING” side of the clamp facing you, turn the clamp parallel to the pole (i.e., 90 degrees to the hook) so that it can go on the J-hook. The clamp will not properly install if you try to put the thicker, top portion of the clamp on the hook.

NOTE: If a bolt/eye-nut combination is used instead of a J-hook, a shackle will also be required (Figure 3).



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Figure 3

Step 2: Once the clamp is placed on the J-hook, the “Optical Fiber” lettering and the cable trough should be facing outward (Figure 4).

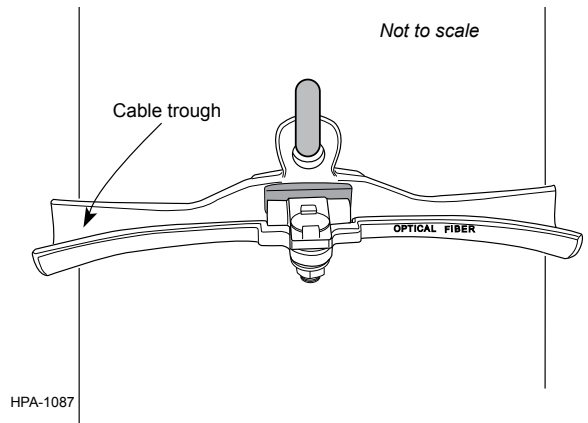


Figure 4

Step 3: If the captive retaining nut is tight, loosen the nut and rotate the clamping arm out of the cable trough (Figure 5).

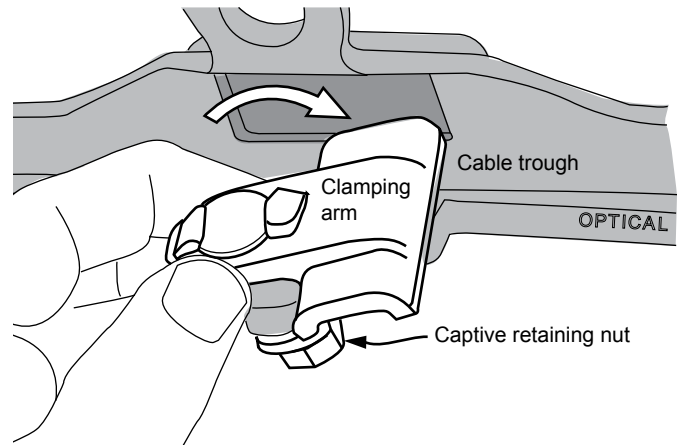


Figure 5

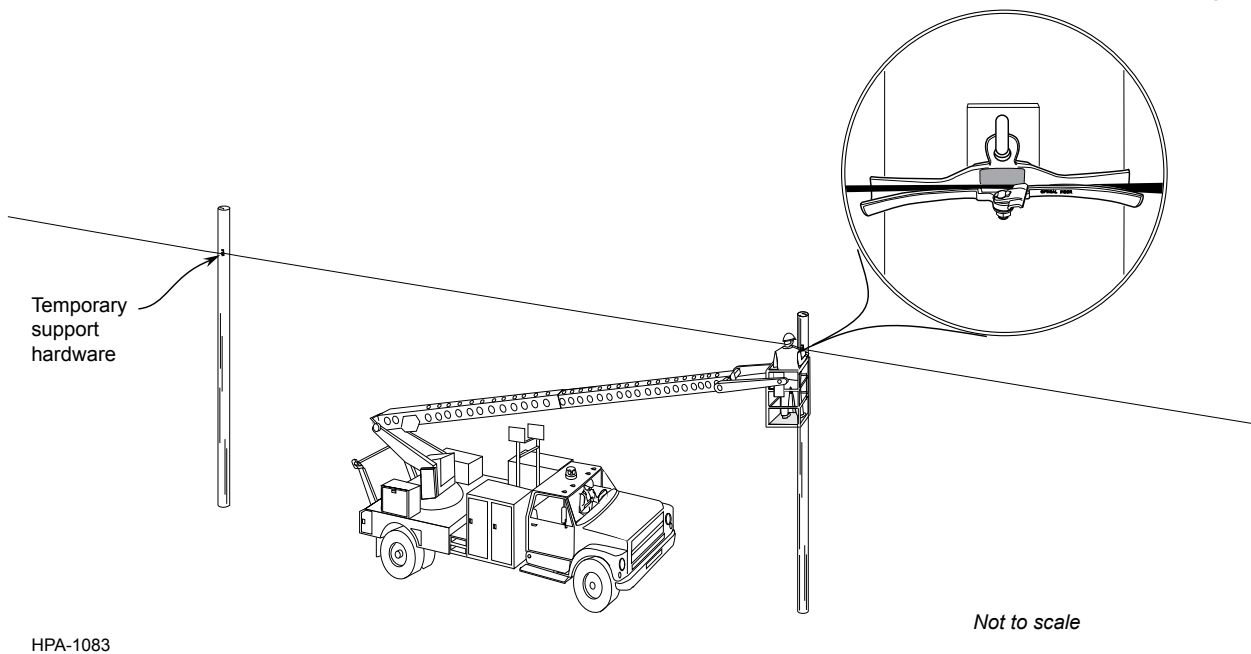


Figure 6

Step 4: Remove the cable from the temporary support hardware (e.g., a roller/block), and lift it into the suspension clamp cable trough (Figure 6).

Step 5: Rotate clamping arm over cable (Figure 7).

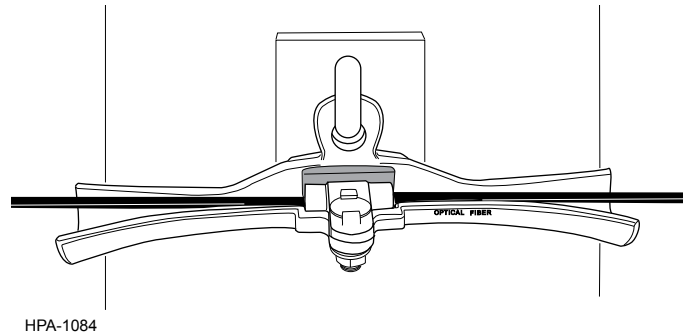


Figure 7

Step 6: Tighten the retaining nut until the spring washer (split washer) is seated, but NOT flattened, using a 13 mm (0.5-in) wrench or tool (Figure 8). Do not overtighten the nut; the recommended torque value for the hardware is 15 ft-lb (180 in-lb).

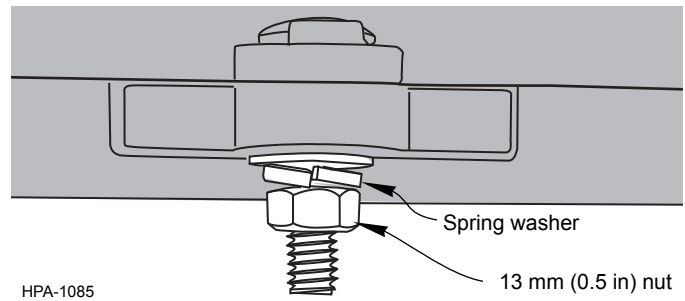


Figure 8