Optical Tension Device (OTD)

For OPGW Fiber Cable

Material

**Body:** High strength aluminum alloy
**Bolts:** High strength forged steel
**Bail:** High strength steel

The Optical Tension Device is designed for pulling OPGW fiber cable to final sag tension. Once the final sag has been achieved, a permanent type dead-end device should be installed promptly, followed by the removal of the tensioning device. This device should not be subjected to sag tension for an extended time period and it should never be utilized as a permanent dead-end device.

When installing the unit, partially tighten successive eye bolts in the following torque sequence:
- First Sequence to 20 ft/lbs.
- Second Sequence to 30 ft/lbs.
- Final Torque to 40 ft/lbs.

**OPGW Cable Range**

8.890 – 20.820 mm
0.350 – 0.820 inches

**Load Rating**

50% of the rated cable breaking strength or 5000 lbs. (22.4 kN) whichever is less.

**Safety Tips**

- Check for cracks and chipped areas along the cable groove and eyebolt areas. Do not reuse if any of these conditions exist
- Eyebolts should be kept clean and lubricated
- Conductor grooves should be clean and dry

After six months use and prior to each job, all Optical Tension Devices should be subjected to a pull test equal to its rated strength. If any damage is found the device should be disposed of or sent to PLP for possible rework and re-qualification.