

Cable lashing device FAQs

Q: Why is cable lashing required?

A: During a fault, the high magnitude of current in each phase creates strong magnetic fields that result in rapid attraction and repulsion of the conductors. The magnetic forces cause the cables to whip back and forth, which can damage the switchgear and the cables. Cable lashing is used to stabilize phase cables during a fault to reduce cable movement and prevent damage to the switchgear and cables.

Q: When is cable lashing required?

A: The lashing of cables is required for the following conditions:

- All 800 A frame breakers
- All breaker frames with short-circuit ratings above 65 kA
- When lugs described below are not used

To ensure the short-circuit ratings of the switchgear, the following cable lugs are to be used for power cables:

Compression crimp lugs

- Two mounting holes
- Minimum of double crimp
- Must be crimped with hydraulic crimper with minimum of 12 tons (11 metric tons) compression

Mechanical screw lugs

- Aluminum body lug with two mounting holes
- One ½-inch hex cable holding a screw torqued to 500 in-lb (56.5 N•m)

Q: How does the cable lashing device compare to other lashing devices?

A: The cable lashing device is the first system of its kind:

- The cable lashing device can reduce cable lashing time by 20 minutes or more per circuit breaker
- The cable lashing device creates a standardized process that utilizes a 17 mm hex-head to provide consistent cable lashing by utilizing a torque wrench to control the strap tightness

Q: How many cable lashing device systems would I need for my switchgear?

A: One cable lashing device system is needed for each breaker installed in the structure.

Q: Is the cable lashing device available for top and bottom cable entry?

A: Yes. The cable lashing device is suitable for both top and bottom cable entry.

Q: What is included with one cable lashing device package?

- A:** The cable lashing device package for three-pole breakers includes:
- Cable brace
 - Four ratchet straps (five ratchet straps for four-pole breakers)
 - Insulation boots
 - Zip ties
 - Installation instructions

Q: Who can benefit from the cable lashing device?

A: Customers who are:

- Concerned with the longevity and protection of their switchgear
- Purchasing new switchgear or looking to upgrade existing equipment with a cable lashing device
- Interested in a quicker, easier cable lashing solution

Q: Can the cable lashing device be installed in existing switchgear?

A: Yes. Previously installed lashings can be upgraded to a cable lashing device to produce the same equipment protection as a newly installed unit.

Q: What are the maintenance requirements?

A: The integrity of the cable lashings should be verified on the same maintenance interval as the switchgear.

Q: How long is this system designed to last?

A: For the life of the switchgear with proper maintenance.

For additional information about the cable lashing device, visit Eaton.com/lva



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