



080: Temporary Power

Advantages

Temporary power is any power wiring supplied with the intention of removal in the near future, regardless of the wiring method used. Because this wiring is temporary:

- You don't need to put splices in junction boxes, provided you maintain equipment grounding continuity.
- You must route the wiring for safety, but you can disregard the appearance requirements of permanent wiring.

Limitations

NEC Article 527 provides the limitations. Some of them are:

- You can't install receptacles on temporary lighting circuits.
- You must have a suitable disconnecting means (switches or plug connectors) for each circuit.
- You must remove temporary wiring when you are done with the tasks that required having it in place.
- All lamps for general illumination must have protection from accidental contact or breakage. A suitable fixture or lampholder with a guard provides this protection.
- You must follow the same ampacity, overload protection, support, and mechanical protection rules as in the rest of the NEC. With portable cords, additional mechanical protection requirements apply.

NEC requirements for portable cords and cable assemblies

Avoid sharp corners and projections.

When routing through doorways or other pinch points, provide protection such as a portable cord guard.

If terminating (rather than plugging in) the cord at a device, use the appropriate fittings.

Use supports to prevent damage. These supports can be staples, cable ties, straps, or similar fittings installed in a way that doesn't pinch the cord. When running cord overhead, consider using a stand made for that purpose. Do not use vegetation to support overhead runs. Do not use steel wire (e.g. #9) to hang cords.

Other requirements for portable cords and cable assemblies

Use an industrial grade or contractor grade portable cord. Compared to "regular" cords, these have superior insulating ability and flexibility.

Ensure portable cords have the right jacket material for the environment. For example, only certain jacket materials are oil resistant. Read the cord jacket or product literature. This requirement is not spelled out in the NEC.

Never splice a portable cord or tape over an abrasion. Once the jacket integrity is lost, so is the safety of the cord.

Never remove the ground prong. Use an adapter and make the proper ground connection.

Discussion leader duties for this session:

Review NEC Article 527 and be prepared to answer questions about it.

What this Safety Talk covers:

What the worker needs to know to prevent fire and shock when using temporary power.

Discussion notes :

