# MVTA 50810 Series

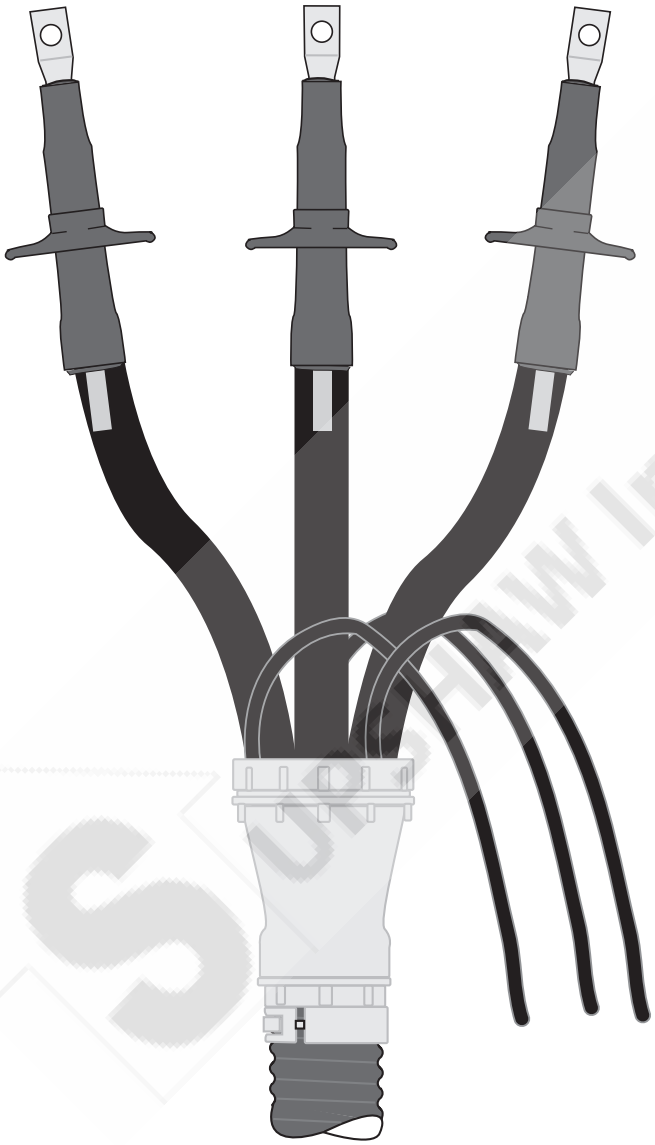
## 8kV Medium Voltage Termination without Boot

**Class 1 Terminator, 1/C armored 7.2-11kV extruded dielectric shielded power cable using armor terminator**

### Description

The Innovative Power Products MVTA 50810 series Class I termination kits are heatshrinkable terminators for three-core 8kV (7.2-11kV) armored extruded dielectric, shielded, medium voltage power cables when an armor terminator is used to terminate and seal the cable's armor and jacket. The MVTA 50810E series terminators are for applications where the terminators are exposed to the elements (outdoor).

MVTA 50810 series kits provide a lightweight, compact alternative to other three-core termination methods. The MVTA 50810 series kit makes installation of the armor terminator faster, easier and the system more reliable.



### Versatility

MVTA 50810 kits cover a wide range of conductor sizes and shapes. The standard kits fit all types of three-core armored cable constructions, including: metallic tape shield, drain wire shielded, lead covered and Unishield® power cables. These kits are based on the single-core MVT 0830 series kits with core and ground wire tubings to jacket the exposed shields. The forty-eight inch (48") tail length allows for easy training of the termination system in switchgear or at the riser in overhead applications. Four (4) kit sizes cover all cable sizes from 4 AWG through 1000 kcmil.

If desired, a cable 'through-passage' fitting can be used to seal the cable jacket while allowing the jacketed cable to enter the enclosure. This fitting is less expensive than an armor terminator and much simpler to install. When a 'through-passage' device is used, the MVT 40810 termination should be used to protect and seal the system. This combination is generally less expensive than the use of armor terminators.

### Performance

MVTA 50810 series kits are factory engineered to provide fast and easy installation with reliable performance.

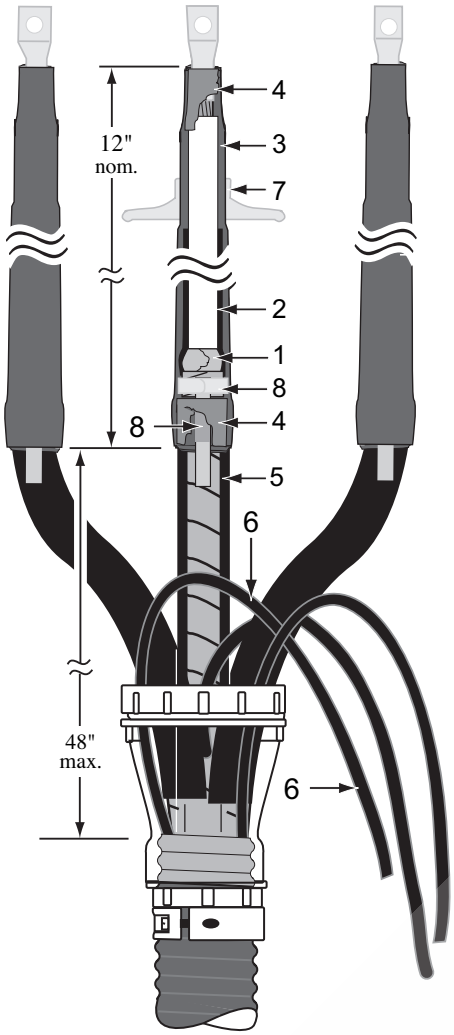
All MVT kits are designed to meet or exceed the requirements of IEEE-48-1990 for Alternating Current Cable Terminations.

### Convenient Packaging

The kits are packaged to provide one (1) three-core termination. Everything is included to terminate the three-core cable with or without ground wires less the terminal lugs and external grounding components. External grounding components can be included as a kit option. Connectors can be supplied in the kits; subject to factory quote. See section 5 for connector information.

### Related Product Information

MVT 50810: Price List PL-623




## Electrical Specifications: 8kV Related Accessories

| Test Requirement | Value | MVTA 50810 |
|---|---|---|
| AC withstand, 1 minute (60 hz) | 25 kV | PASS |
| DC withstand, 15 minutes | 50 kV | PASS |
| Discharge Extinction Voltage (<3pC) | 4.5 kV | > 4.5kV |
| Impulse withstand 1.2 x 50 µs (crest kV) | 75 kV | > 75kV |
| Wet withstand, 10 seconds | 25 kV | PASS |
| Dry withstand, 6 hours | 15 kV | PASS |
| Continuous current rating | = Cable | = Cable |

## Bill of Materials: (Std. Pkg = 1 kit) Terminates 1-3/C cable end

| Key | Item Description | Quantity | Supplied |
|---|---|---|---|
| 1 | Field Control Material | 3 strips | In All Kits |
| 2 | Field Control Tubing | 3 tubes | In All Kits |
| 3 | Non-Tracking Tubing | 3 tubes | In All Kits |
| 4 | Sealant Strips | as required | In All Kits |
| 5 | Core Jacketing Tubing | 3 tubes | In All Kits |
| 6 | Ground Jacketing Tubing | 3 tubes | In All Kits |
| - | Installation Guide | 1 each | In All Kits |

## Options: Modification items for 1-3/C kit

| Key | Item Description | Quantity | Nomenclature |
|---|---|---|---|
| 7 | Non-Tracking Shed | 3 per kit | **E** - Emod Kit** |
| 8 | Sealed Ground Kit | 3 per kit | **G** - Gmod Kit** |
| - | Cable Cleaning Kit (Not Shown) | 1 per kit | **P** - Pmod Kit** |
| - | Terminal Lugs | 3 per kit | Factory Quoted* |

## 8kV Selection Guide for 3/C cable without grounds

| Conductor Range<br>*All Dimensions in Inches* | Kit Catalog Number | Insulation Diameter |
|---|---|---|
| 4 - 2 AWG | MVTA 50811 | 0.47 - 0.66 |
| 1 - 2/0 AWG | MVTA 50812 | 0.55 - 0.85 |
| 3/0 - 350 kcmil | MVTA 50813 | 0.73 - 1.06 |
| 500 - 1000 kcmil | MVTA 50814 | 1.00 - 1.55 |

## Ordering Information

1. Select the kit catalog number by the cable size. The kit contains everything needed to terminate 3/C cable less the armor terminator and connectors for sheltered (indoor) use. **Confirm the dimensions when at the extremes of the size range.**

2. Add the mod kit letter designation as needed to change the base kit:

**E** - sheds are required for exposed (outdoor) environments.

**G** - sealed grounding kit (Gmod)

**P** - cable cleaning kit (Pmod)

**EXAMPLE:**
For 3/C, armored 2 AWG, 8kV cable installed in an exposed (outdoor) environment, using a separately supplied armor terminator and adding sealed grounding kits (Gmod):

MVTA 508 11 E G P
- P: Cleaning/prep kit
- G: Sealed grounding kit
- E: Exposed, non-tracking sheds
- 11: 1-3/C term./box and kit size
- 508: 500 series, 8 kV Termination kit

**EXAMPLE:**
For a 3/C armored, 2/0 AWG 7.2kV cable installed in a sheltered (indoor) environment using a separately supplied armor terminator and adding sealed grounding and cleaning kits:

MVTA 508 12 G P
- P: Cleaning/prep kit
- G: Sealed grounding kit
- 12: 1-3/C term./box and kit size
- 508: 500 series, 8 kV Termination kit

*** CONNECTORS: To have connectors supplied in the kits, please refer to Section 5 in this catalog for connector selection information. The connectors must be ordered separately but can be packaged within the kits if detailed information is supplied. ** Supplied if specified. *** WRAPAROUND SLEEVE with stainless steel channel–Contact IPP for more information.**