

# MVT 43510 Series

3/C, 35kV Medium Voltage Termination with Boot Class 1 terminator for three-core 33-36kV extruded dielectric shielded power cable with up to 3 grounds

### Description

The Innovative Power Products MVT 43510 series Class I termination kits are heatshrinkable terminators for three-core armored or unarmored 35kV (33-36kV), extruded dielectric shielded medium voltage cables with or without ground wires. The MVT 43510E series terminations are for applications where the terminators are exposed to the elements such as precipitation or direct outdoor sunlight.

MVT 43510 series kits provide a lightweight compact alternative to other three-core termination methods. There are no compounds to mix and pour and no labor-intensive taping procedures. MVT 43510 series terminators provide a rugged, low cost and reliable cable termination.



#### Versatility

The MVT 43510 kits cover a wide range of conductor sizes and shapes. They accommodate out-of-round or off-tolerance cables, in both round and sector shaped conductors. The standard kits fit all types of three-core cable constructions with or without ground wires, including: metallic tape shield, drain wire shielded, lead covered and Unishield® power cables. MVT 43510 series kits can be used on armored cables when no separate armor terminator is used. The kits are based on the single-core MVT 3530 series kits with additional components to convert the three-core cable into three, individual single cores. The forty-eight inch (48") tail length allows for easy training of the termination in switchgear, or at the riser in overhead transition applications. Three (3) kit sizes cover cable sizes from 1 AWG through 1500 kcmil.

### Performance

MVT 43510 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 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 43510: Price List PL-654

#### Electrical Specifications: 35kV Related Accessories

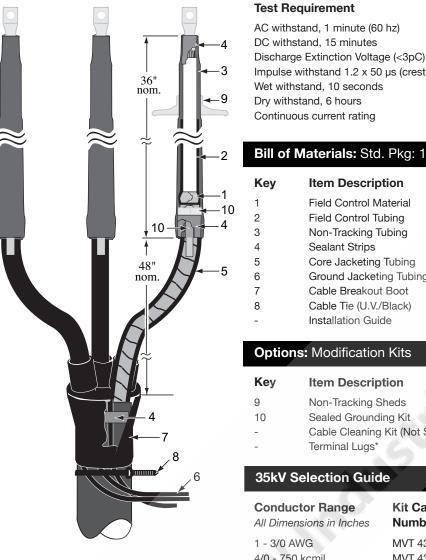
Value

65 kV

105 kV 33.3 kV **MVT 43510** 

PASS PASS

> 33.3kV



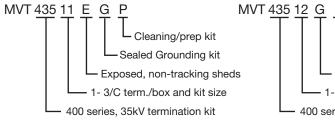
Impulse withstand 1.2 x 50 µs (crest kV) Wet withstand, 10 seconds Dry withstand, 6 hours Continuous current rating			200 kV 80 kV 75 kV = Cable	> 200kV PASS PASS = Cable
<b>Bill of Materials:</b> Std. Pkg: 1 kit = 1 each, 1-3/C cable end				
Key	Item Description		Quantity	Supplied
1	Field Control Material		3 strips	In All Kits
2	Field Control Tubing		3 tubes	In All Kits
3	Non-Tracking Tu	ıbing	3 tubes	In All Kits
4	Sealant Strips		as required	In All Kits
5	Core Jacketing	Tubing	3 tubes	In All Kits
6	Ground Jacketir	0 0	3 tubes	In All Kits
7	Cable Breakout		1 each	In All Kits
8	Cable Tie (U.V./Black)		1 each	In All Kits
-	Installation Guide		1 each	In All Kits
Options: Modification Kits				
options. Modification Kits				
Key	Item Description		Quantity	Nomenclature
9	Non-Tracking Sheds		12 pieces	E - Emod Kit**
10	Sealed Grounding Kit		3 piece	G - Gmod Kit**
-	Cable Cleaning Kit (Not Shown)		1 kit	P - Pmod Kit**
-	Terminal Lugs*		3 piece	Factory Quoted*
35kV Selection Guide				
Conductor Range All Dimensions in Inches		Kit Catalog Number	Insulation Diameter	Jacket Diameter
1 - 3/0 AWG		MVT 43511	1.00 - 1.25	1.75 - 3.75
4/0 - 750 kcmil		MVT 43512	1.19 - 1.82	2.25 - 5.00
800 - 1500 kcmil		MVT 43513	1.82 - 2.25	2.50 - 6.00
Ordering Information				

1. Select the kit catalog number by the cable size. The kit contains everything needed to terminate 3/C cable less the 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)

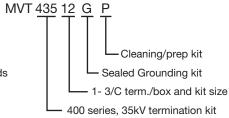
#### EXAMPLE:

For 3/C, 2/0 AWG, 35kV cable without ground wires, in an exposed (outdoor) environment, with sealed grounding kits (Gmod) and cable cleaning kit:



#### EXAMPLE:

For a 3/C armored, 250 kcmil, 35kV cable with 1, 2 or 3 grounds, installed in a sheltered (indoor) environment with sealed grounding kits and cleaning 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.