



# MVT 41510 SERIES

3/C, 15 kV Medium Voltage Termination w/ Boot  
Class I terminator for three-core 12-17.5 kV extruded dielectric, shielded power cable with up to three grounds

## Description

The Innovative Power Products MVT 41510 series Class I termination kits are heatshrinkable terminators for three-core armored or unarmored 15 kV (12-17.5 kV), extruded dielectric, shielded, medium voltage cables *with or without ground wires*. The MVT 41510E series terminations are for applications where the terminators are exposed to the elements such as precipitation or to direct outdoor sunlight .

MVT 41510 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 41510 series terminators provide a rugged, low cost and reliable cable termination.

## Versatility

MVT 41510 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 41510 series kits can be used on armored cables when no separate armor terminator is used. These kits are based on the single-core MVT 1530 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. Four (4) kit sizes cover cable sizes from 4 AWG through 1000 kcmil.

## Performance

MVT 41510 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.

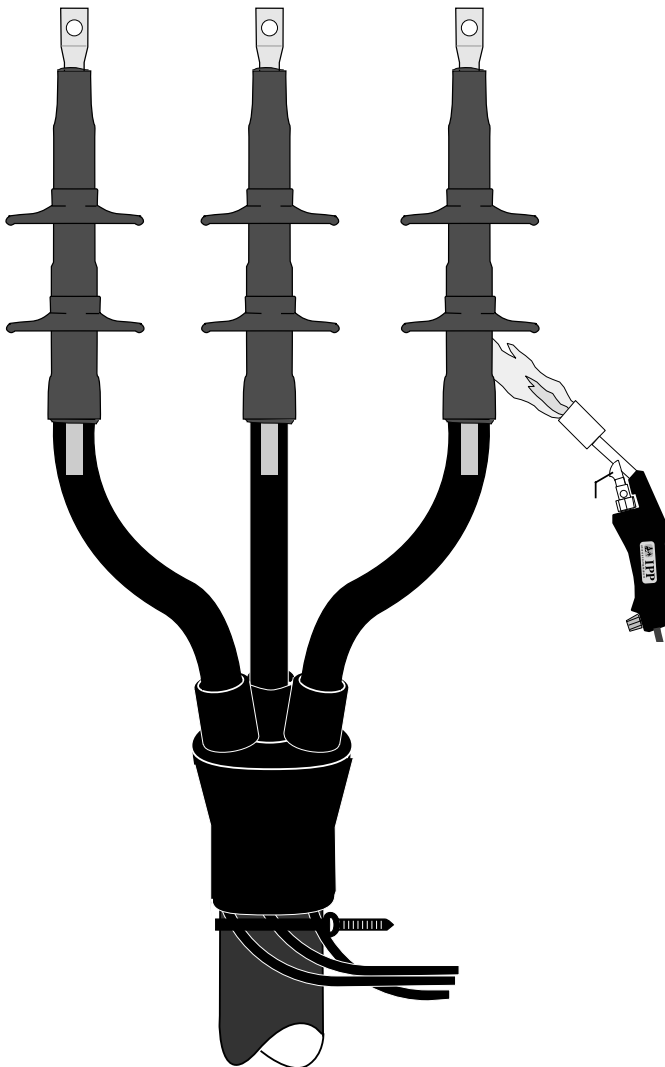
## Convenient Packaging

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.

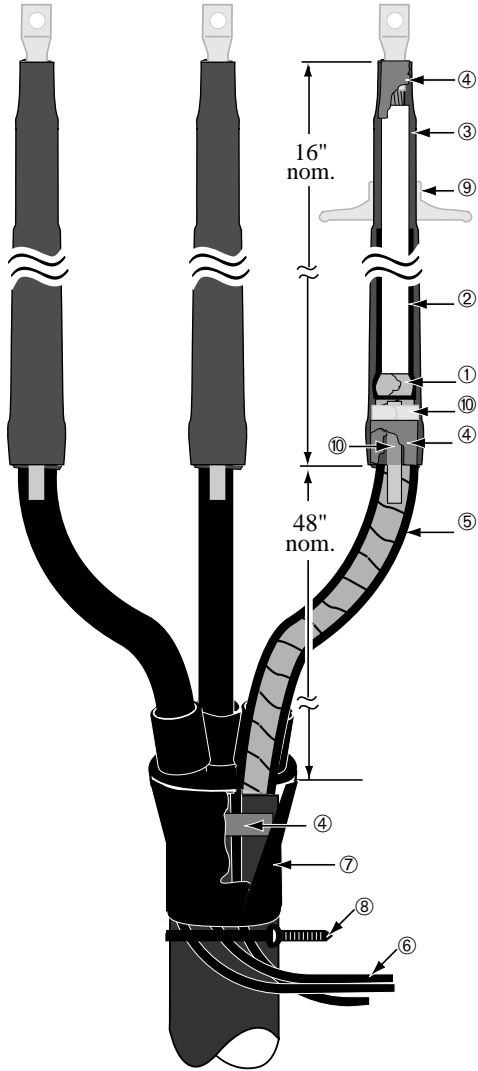
## Related Product Information

MVT 41510:

- Price List PL-632



**ELECTRICAL SPECIFICATIONS: 15 kV Rated Accessories**



Test Requirement	Value	MVT 41510
AC withstand, 1 minute (60 hz)	50 kV	PASS
DC withstand, 15 minutes	75 kV	PASS
Discharge Extinction Voltage (<3pC)	13 kV	> 13 kV
Impulse withstand 1.2 x 50 μs (crest kV)	110 kV	> 110 kV
Wet withstand, 10 seconds	45 kV	PASS
Dry withstand, 6 hours	35 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 req'd.	in all kits
⑤	Core jacketing tubing	3 tubes	in all kits
⑥	Ground jacketing tubing	3 tubes	in all kits
⑦	Cable breakout (3 legged)	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 items for 1-3/C kit)

Key	Item Description	Quantity	Nomenclature
⑨	Non-Tracking Sheds	6 per kit	E mod (exposed)
⑩	Sealed Grounding Kit	3 per kit	G mod
	• Terminal Lugs*	3 per kit	Factory quoted
	• Cable cleaning kit (not shown)	1 per kit	P mod kit

**15 kV SELECTION GUIDE** for 3/C cable with/without grounds

Conductor Range <i>All dimensions in inches</i>	Kit Catalog Number	Insulation Diameter	Jacket Diameter
4-1/0 AWG	MVT 41511	0.60-0.95	1.30-2.40
2/0-250 kcmil	MVT 41512	0.80-1.12	1.70-2.80
250-500 kcmil	MVT 41513	0.98-1.36	2.10-3.50
750-1000 kcmil	MVT 41514	1.30-1.70	2.60-4.20

**ORDERING INFORMATION**

1.. Select the kit catalog number by the cable size. A standard package contains everything needed to terminate one (1) three-core (3/C) cable, *less* the connectors, for sheltered (indoor) use.

**Confirm the dimensional data at the extremes of the size range.**

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

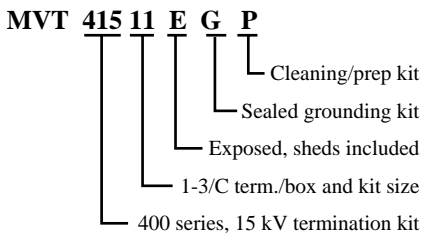
**E** -sheds are required for exposed (outdoor) environments (E mod).

**G** -sealed grounding kit (G mod).

**P** -cable cleaning kit (P mod).

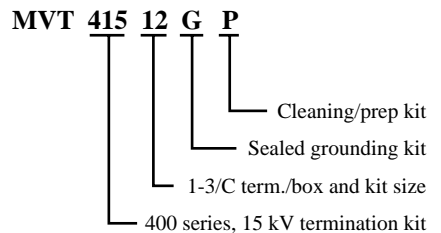
**EXAMPLE:**

For 3/C, 2 AWG, 15 kV cable without ground wires, in an exposed (outdoor) environment, with sealed grounding kits (G mod) and cable cleaning kit:



**EXAMPLE:**

For a 3/C armored, 2/0 AWG 15 kV 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.