



MVT 3530 SERIES

35 kV Medium Voltage Termination
Class I terminator for single conductor 33-36 kV
extruded dielectric, shielded power cable

Description

The Innovative Power Products MVT 3530 series Class I terminators are heatshrinkable 35 kV (33-36 kV) extruded dielectric shielded medium voltage power cable terminations. The MVT 3530E series terminations are for applications where the terminator is exposed to the elements such as precipitation or direct outdoor sunlight.

MVT kits provide a lightweight, compact and flexible alternative to porcelain terminators. These features allow the installation of the system in low profile switchgear and other enclosures requiring multiple cable-to-busbar connections. The MVT system does not add any significant weight to the cable, therefore no special hardware is required to support the completed termination.

Versatility

MVT 3530 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 cable constructions, including: metallic tape shield, drain wire shield, lead covered and Unishield® power cables. Three (3) kit sizes cover all cable sizes from 1 AWG through 1500 kcmil.

Performance

MVT kits are factory engineered to provide fast and easy installation with reliable performance.

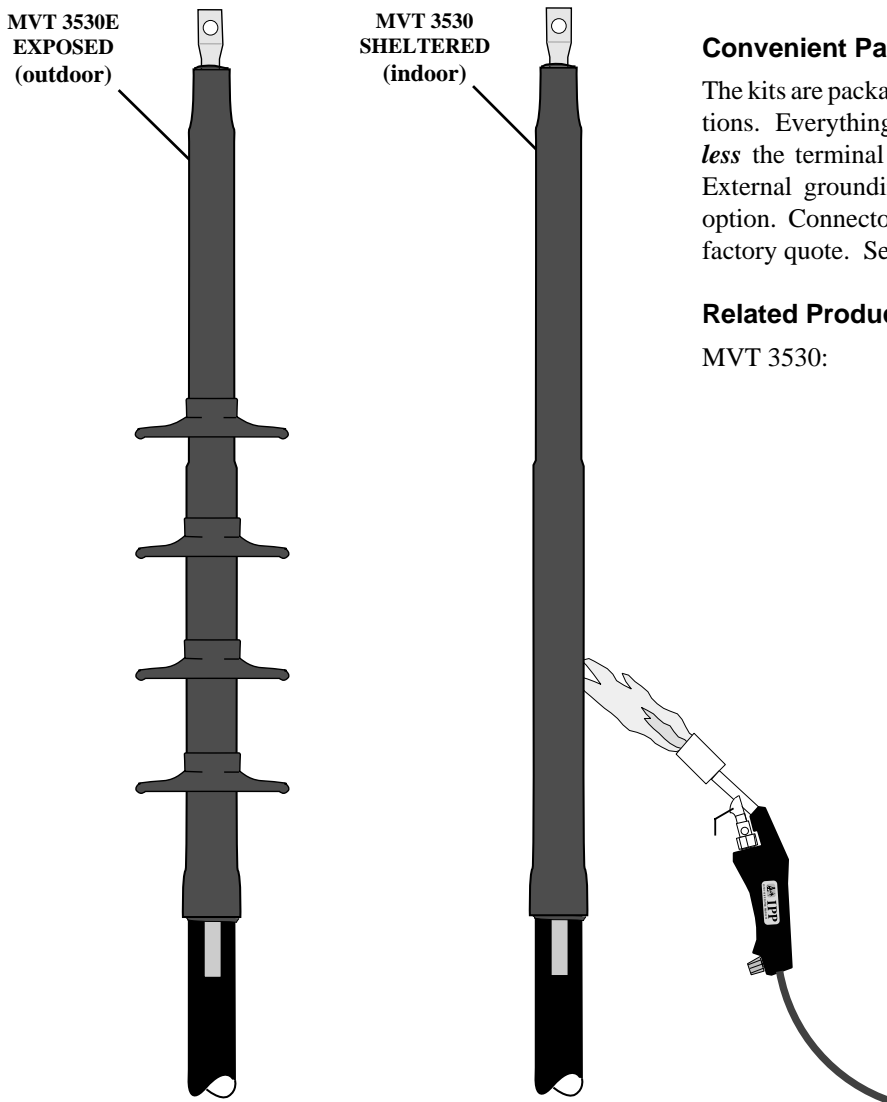
All MVT kits are designed to meet or exceed the requirements of IEEE-48 for Alternating Current Cable Terminations.

Convenient Packaging

The kits are packaged to provide three (3) single-core terminations. Everything is included to terminate three single cores *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.

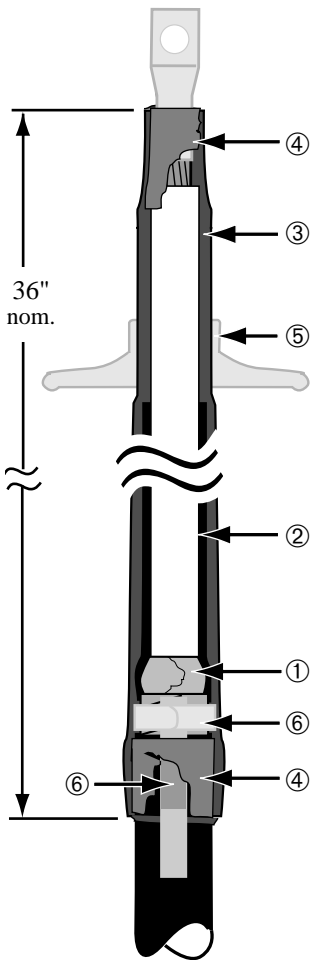
Related Product Information

- MVT 3530: • Price List PL-652



ELECTRICAL SPECIFICATIONS: 35 kV Rated Accessories

Test Requirement	Value	MVT 3530
AC withstand, 1 minute (60 hz)	90 kV	PASS
DC withstand, 15 minutes	140 kV	PASS
Discharge Extinction Voltage (<3pC)	33.3 kV	> 33.3 kV
Impulse withstand 1.2 x 50 μs (crest kV)	200 kV	> 200 kV
Wet withstand, 10 seconds	80 kV	PASS
Dry withstand, 6 hours	75 kV	PASS
Continuous current rating	= cable	= cable



BILL OF MATERIALS (One kit terminates one 1/C cable end. (Std. Pkg.= 3kits))

Key	Item Description	Quantity	Supplied
①	Field Control Material	1 strip	in all kits
②	Field Control Tubing	1 tube	in all kits
③	Non-tracking Tubing	1 tube	in all kits
④	Sealant Strips	as req'd.	in all kits
•	Installation Guide	1 each	in all kits

OPTIONS (Mod. kits: requirements for one kit)

Key	Item Description	Quantity	Nomenclature
⑤	Non-Tracking Sheds	4 pieces	E mod kit (exposed)
⑥	Sealed Grounding Kit	1 piece	G mod kit
•	Terminal Lugs*	1 piece	Factory quote
•	Cable cleaning kit (not shown)	1 kit	P mod kit

35 kV SELECTION GUIDE

Conductor Range <i>All dimensions in inches</i>	Kit Catalog Number	Insulation Diameter	Jacket Dia. max
1-3/0 AWG	MVT 3531	1.00-1.25	1.50
3/0-750 kcmil	MVT 3532	1.19-1.82	2.10
800-1500 kcmil	MVT 3533	1.82-2.25	2.75

ORDERING INFORMATION

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

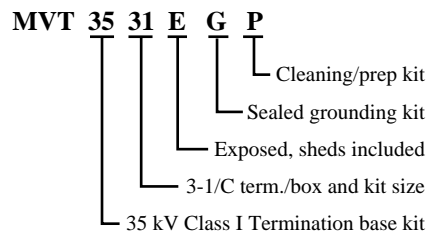
Confirm the dimensional data at the extremes of the size range.

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

- E** - sheds are required for exposed (outdoor) environments (Emod).
- G** - sealed grounding kit (Gmod).
- P** - cable cleaning kit (Pmod).

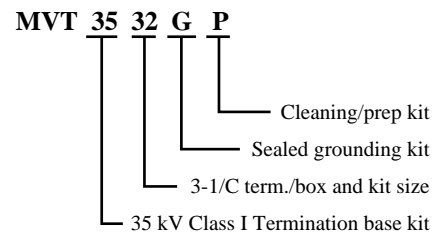
EXAMPLE:

For 1/C, 2/0 AWG, 35 kV cable to be installed in an exposed (outdoor) environment, using a sealed grounding kit (Gmod) and a cable cleaning kit:



EXAMPLE:

For 1/C, 500 kcmil, 36 kV cable to be installed in a sheltered (indoor) environment, using a sealed grounding kit (Gmod) and a cable 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.