



MVJ 150T SERIES

15 kV Medium Voltage Straight Joint
Straight joints for single-core 12-17.5 kV,
extruded dielectric shielded power cables

Description

The Innovative Power Products MVJ 150T series joint is a heatshrinkable system for jointing *shielded* 15kV (12-17.5 kV) extruded dielectric, medium voltage cable. The kit uses special materials to control electrical stress over the connector and at the shield cutbacks, and provide internal moisture seals. A heatshrinkable field control tubing controls stress over the connector and shield cutbacks. Insulating and shielding tubes reinsulate and reshield the area over the spliced conductor. Tinned copper mesh and braid reestablish the metallic shielding across the joint. A tough abrasion resistant black jacketing tube or wraparound jacketing sleeve provides the joint with external moisture seals and mechanical protection.

MVJ kits provide a lightweight, compact, and environmentally sealed system for splicing extruded dielectric shielded power cable. These features allow the installation of this jointing system in duct systems, vaults, submersible or direct-buried applications. The system is totally sealed; joint failures in flooded vaults are eliminated.

Versatility

The MVJ 150T kits cover a wide range of conductor sizes and shapes. It will accommodate out-of-round or off-tolerance cables in both round and sector shaped conductor. The standard kit fits all cable constructions including: metallic tape, drain wire shield or Unishield® shielded power cables. The MVJ kits can be used for size transitions within the actual kit's cable use range. Four (4) kit sizes cover all cable sizes from 2 AWG through 1000 kcmil. When preparing the cable ends, pencilling of the insulation is not required.

Performance

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

All MVJ kits are designed to meet or exceed the requirements of the applicable sections of the following cable and cable accessory standards: IEEE-404, IEEE-48, ICEA-66-524, ICEA-66-516, and ANSI C119.2.

Related Product Information

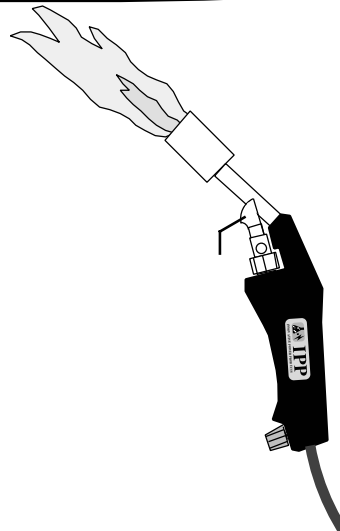
MVJ 150T series:

• Price List PL-637



Convenient Packaging

The MVJ factory engineered kits are individually packaged single-core *shielded* cable joints. Everything is included to splice one single-core cable *less* the butt-splice connector 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.



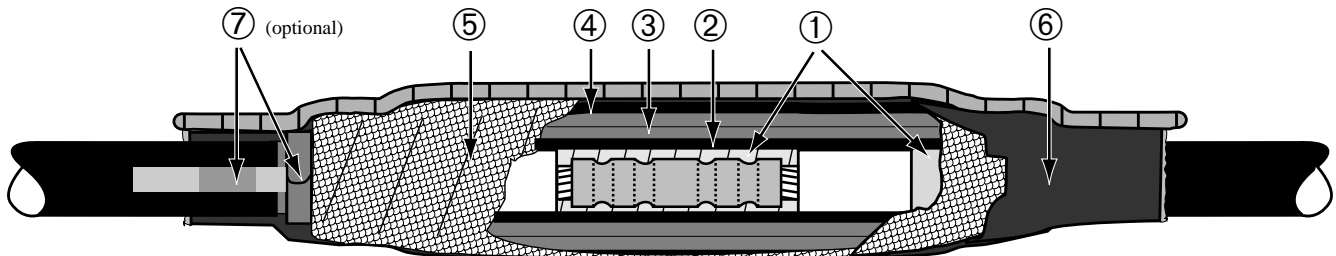
9 M.V. Cable Acc. 15 kV

ELECTRICAL SPECIFICATIONS: 15 kV Rated Accessories

Test Requirement	Value	MVJ 150T
AC withstand, 1 minute (60 hz)	35 kV	PASS
DC withstand, 15 minutes	70 kV	PASS
Partial Discharge (Corona) Voltage <3pC	13.0 kV	> 13.0 kV
Impulse withstand 1.2 x 50 µs (crest kV)	110 kV	> 110 kV
AC withstand, 1 hour (60 hz)	52.5 kV	PASS
AC withstand, 5 hours (60 hz)	35 kV	PASS
Continuous current rating	= cable	= cable
Cyclical submersion test (ANSI C119.2)	Pass 52 cycles	Passed 52 cycles

BILL OF MATERIALS (Std. Pkg: 1 kit = 1 each, 1/C joint)

Key	Item Description	Quantity	Supplied	Key	Item Description	Quantity	Supplied
①	Field Control Material	as required	in all kits	⑥	Black jacketing tube	1 per kit	in all kits
②	Field Control Tube	1 per kit	in all kits	⑦	Sealed Grounding Kit	1 per kit	Gmod (if spec'd)
③	Insulating Tube	as required	in all kits	•	Cable cleaning kit	1 per kit	Pmod (if spec'd)
④	Shielding Tube	1 per kit	in all kits	•	Butt-splice Connector*	1 per kit	Factory quoted
⑤	Shielding Braid & Mesh	as required	in all kits	•	Installation Guide	1 per kit	in all kits
Wraparound sleeve - Contact IPP							



15 kV SELECTION GUIDE

Conductor Range <i>All dimensions in inches</i>	Kit Catalog Number	Insulation min.	Diameter max.	Connector Length max.	Connector O.D. max.	Installed Length max.
2-4/0 AWG	MVJ 151T	0.65	1.05	3.75	0.75	27.0
250-350 kcmil	MVJ 152T	0.90	1.30	5.00	1.00	30.0
500-750 kcmil	MVJ 153T	1.10	1.60	6.00	1.35	30.0
750-1000 kcmil	MVJ 154T	1.30	1.85	8.00	1.85	36.0

ORDERING INFORMATION

- Find your cable size in the selection guide above and identify the kit catalog number. This kit will be all that is needed to splice one single-core cable, *less* the butt-splice connector and shield grounding hardware.
Confirm dimensional data at extremes of size range.

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

G - solderless sealed grounding kit (Gmod)

P - cable cleaning kit including; solvent saturated towels and non-conductive abrasive cloth (Pmod2).

EXAMPLES:

1/C, 1/0 AWG, 15 kV cable spliced to the same exact cable with a solderless grounding kit (G mod) and a cable cleaning kit (P mod): **MVJ 151TGP**

1/C, 250 kcmil, 15 kV cable spliced to the same exact cable with a solderless grounding kit: **MVJ 152TG**

* **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.