



MVJ 3350T SERIES

35 kV, 3/C Medium Voltage Joint
Straight joint for three-core 33-36 kV,
extruded dielectric shielded power cables

Description

The Innovative Power Products MVJ 3350T series joint is a heatshrinkable system for jointing three-core shielded 35 kV (33-36 kV) extruded dielectric medium voltage power cable. The kit has field control material to control electrical stress over the connectors and at the shield cutbacks and provide internal moisture seals. Insulating tubing and shielding tubing reinsulate and reshield the areas over the spliced conductors. 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 3350T kits provide a lightweight, compact, and environmentally sealed system for splicing three-core extruded dielectric, shielded power cable. These features allow the installation of this jointing system in duct systems, vaults, submersible or direct-buried applications. This system provides a total environmental seal; joint failures in flooded vaults are eliminated.

Versatility

MVJ 3350T 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 cable constructions including: metallic tape, drain wire shielded or Unishield® power cable. The MVJ 3350T kits can be used for size transitions within the actual kit's cable use range. Two (2) kit sizes cover cable sizes from 1/0 AWG through 500 kcmil. When preparing the cable ends no pencilling of the cable insulation is required.

Performance

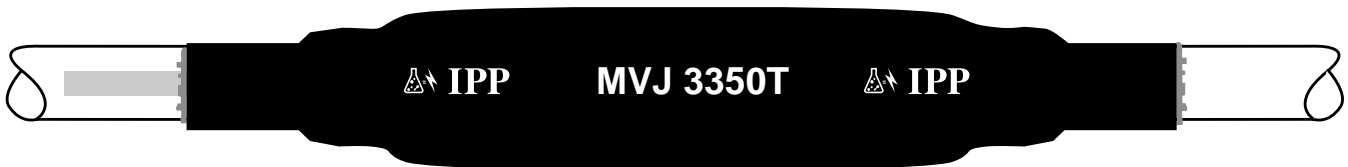
MVJ 3350T kits are factory engineered to provide fast and easy installations with reliable lifetime performance.

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 3350T series:

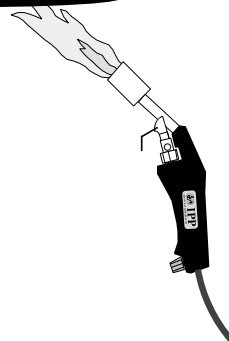
• Price List PL-660



Convenient Packaging

These factory engineered kits are supplied with everything that is necessary to rebuild the cable including ground braids and constant force springs. The braids are internal to the joint and **do not** have sufficient length for external grounding.

The MVJ 3350T kits are individually packaged three-core **shielded** cable joints. Everything is included to splice one three-core cable, with or without grounds, **less** the external grounding hardware, butt-splice and ground wire connectors. 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.

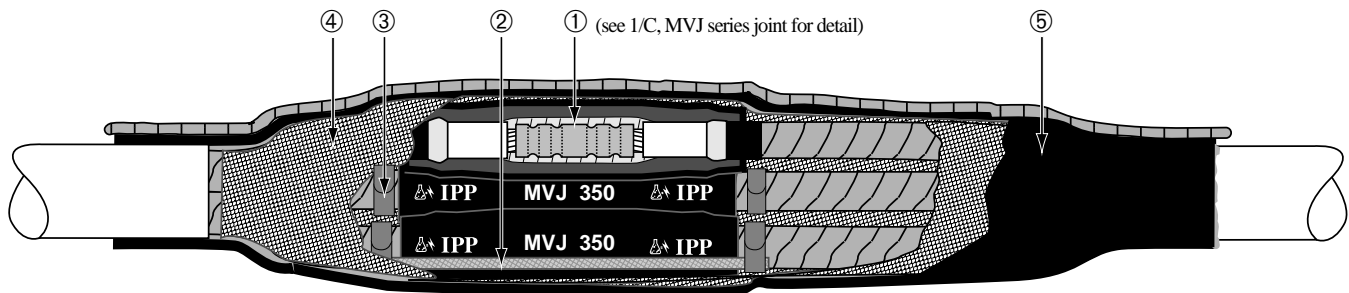


ELECTRICAL SPECIFICATIONS: 35 kV Rated Three-core Joints

Test Requirement	Value	MVJ 3350T
AC withstand, 1 minute (60 hz)	69 kV	PASS
DC withstand, 15 minutes	125 kV	PASS
Partial Discharge (Corona) Voltage <3pC	30.3 kV	> 30.3 kV
Impulse withstand 1.2 x 50 μs (crest kV)	200 kV	> 200 kV
AC withstand, 1 hour (60 hz)	103.5 kV	PASS
AC withstand, 5 hours (60 hz)	69 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, 3/C joint)

Key	Item Description	Quantity	Supplied	Key	Item Description	Quantity	Supplied
①	MVJ 350 Joint (<i>no jacket</i>)	3 per kit	in all kits	•	Sealed Grounding Kit	3 per kit	Gmod (if spec'd)
②	Tinned Copper Braid	3 per kit	in all kits	•	Cable cleaning kit	1 per kit	Pmod (if spec'd)
③	Constant Force Spring	6 per kit	in all kits	•	Butt-splice Connector*	3 per kit	Factory quoted
④	Tinned Copper Mesh	as req'd	in all kits	•	Ground Connector*	as req'd	Factory quoted
⑤	Black jacketing tube or Wraparound sleeve - Contact IPP	1 per kit	in all kits	•	Installation Guide	1 per kit	in all kits



35 kV SELECTION GUIDE

Conductor Range	Kit Catalog Number	Insulation min.	Diameter max.	Connector Length max.	Connector O.D. max.	Installed Length max.
1-3/0 AWG	MVJ 3351T	0.98	1.35	3.75	1.00	64.0
4/0-500 kcmil	MVJ 3352T	1.25	1.69	5.50	1.50	76.0

ORDERING INFORMATION

1. 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 three-core cable *less* the phase and ground wire connectors and shield grounding kits. **Confirm dimensional data at extremes of size range**

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

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

G - solderless sealed grounding kit (Gmod)

EXAMPLES:

To splice a 3/C, 35 kV, 1/0 AWG cable to the same cable size and construction: **MVJ 3351T**

To splice a 3/C, 35 kV, 250 kcmil cable to a 3/C, 35 kV, 500 kcmil cable with a cable cleaning kit: **MVJ 3352TP**

To splice a 3/C Armored, 35 kV, 500 kcmil cable to a 3/C Unarmored cable of the same size: **MVJ 3352T**

* **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.