



# MVJA 3350T Series

## 35kV, 3/C Armored Medium Voltage Joint

Straight joint for three-core armored 33-36kV, extruded dielectric shielded power cables

### Description

The Innovative Power Products MVJA 3350T series joint is a heatshrinkable system for jointing three-core armored 35kV (33-36kV) extruded dielectric medium voltage power cable. The kit has field control material and heatshrinkable field control tubing to control electrical stress over the connectors and at the shield cutbacks and provide an internal moisture seal. Insulating tubings 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 galvanized steel wraparound case combined with an abrasion resistant black jacketing tube or wraparound jacketing sleeve provide the joint with external moisture seals plus mechanical protection.

MVJA 3350T kits provide a lightweight, compact, and environmentally sealed system for splicing three-core armored 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.

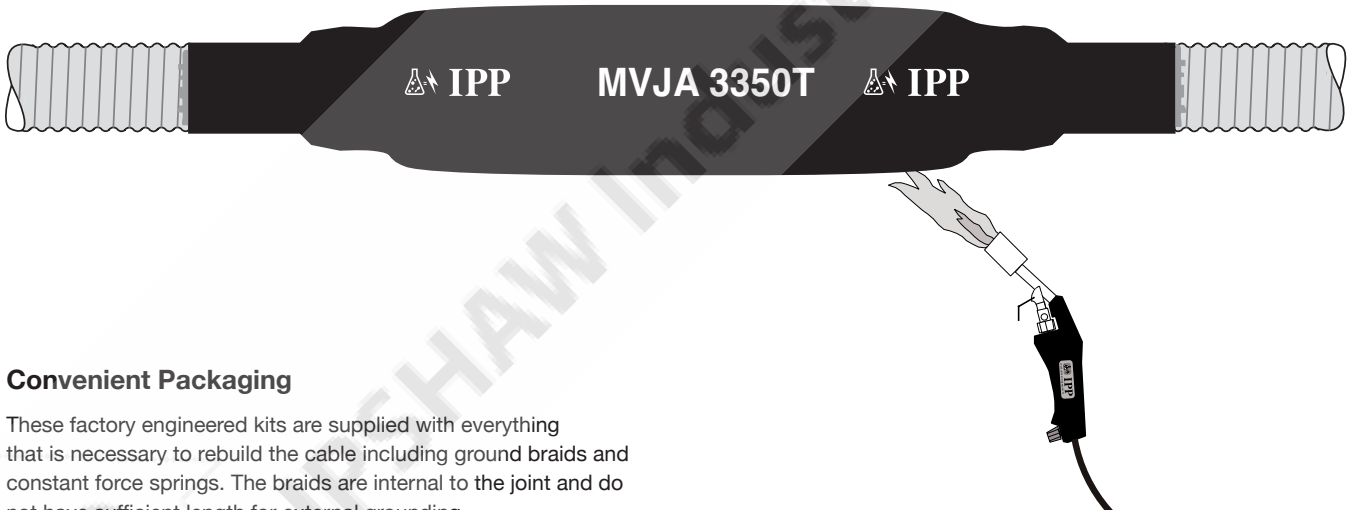
### Versatility

MVJA 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 or Unishield® armored power cables. The MVJA 3350T kits can be used for size transitions within the actual kit's cable use range. Three (3) kit sizes cover cable sizes from 1 AWG through 1000kcmil. When preparing the cable ends, no penciling of the cable insulation is required.

### Performance

MVJA 3350T kits are factory engineered to provide fast and easy installations 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.



### 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 MVJA 3350T kits are individually packaged three-core armored cable joints. Everything is included to splice one three-core armored cable, with or without grounds, less the butt-splice and ground wire connectors. Connectors can be supplied in the kits; subject to factory quote. See section 5 for connector information.

### Related Product Information

MVJA 3350T series: Price List PL-661

## Electrical Specifications: 35kV Rated Three-core Armor Joints

Test Requirement	Value	MVJA 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	> 30.3kV
Impulse withstand 1.2 x 50 $\mu$ s (crest kV)	200 kV	> 200kV
AC withstand, 1 hour (60hz)	103.5 kV	PASS
AC withstand, 5 hour (60hz)	69 kV	PASS
Continuous current rating	= Cable	= Cable
Cyclical Submersion test (ANSI C119.2)	Pass 52 cycles	Pass 52 cycles

## Bill of Materials: Std. Pkg.: 1 kit = 1 each, 3/C Armored Joint

Key	Item Description	Quantity	Supplied	Key	Item Description	Quantity	Supplied
1	MVJ 350 (no jacket)	3 per kit	In All Kits	6	Black Jacketing Tube or Wraparound Sleeve***	1 per kit	In All Kits
2	Tinned Copper Braid	3 per kit	In All Kits	-	Cable Cleaning Kit	1 per kit	Pmod**
3	Constant Force Spring	6 per kit	In All Kits	-	Butt-splice Connector	3 per kit	Factory Quoted*
4	Tinned Copper Mesh	as required	In All Kits	-	Ground Connectors	as required	Factory Quoted*
5	Wraparound Armor Case	1 per kit	In All Kits	-	Installation Guide	1 per kit	In All Kits

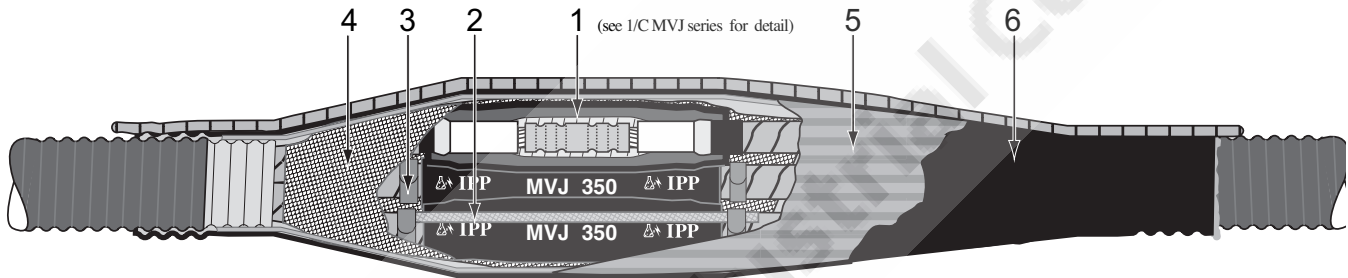


Image shows product with wraparound sleeve.

## 35kV Selection Guide

Conductor Range <i>All Dimensions in Inches</i>	Kit Catalog Number	Insulation Dia.		Connector Dimension		Installed Length Max
		Max	Min	Length Max	O.D. Max	
1 - 3/0 AWG	MVJA 3351T	0.98	1.35	3.75	1.00	72.0
4/0 - 500 kcmil	MVJA 3352T	1.25	1.69	5.50	1.50	72.0
600 - 1000 kcmil	MVJA 3353T	1.60	2.18	8.00	1.86	80.0

## Ordering Information

1. Find your armored 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 connectors. **Confirm dimensions at the extremes of the size range.**

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

**P** - cable cleaning kit (Pmod)

### EXAMPLE 1:

To splice a 3/C, 35kV, 1 AWG armored cable to the same cable:

**MVJA 3351T**

### EXAMPLE 2:

To splice 3/C, 35kV, 250 kcmil armored cable to a 3/C, 35kV, 350 kcmil armored cable with a cable cleaning kit:

**MVJA 3352TP**

\* 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.