



MVJA 3350T SERIES

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

Description

The Innovative Power Products MVJA 3350T series joint is a heatshrinkable system for jointing three-core armored 35 kV (33-36 kV) 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. Two (2) kit sizes cover cable sizes from 1 AWG through 500 kcmil. When preparing the cable ends, no pencilling 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.

Related Product Information

MVJA 3350T series:

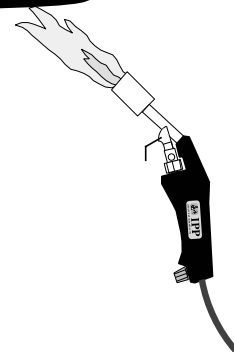
• Price List PL-661



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.



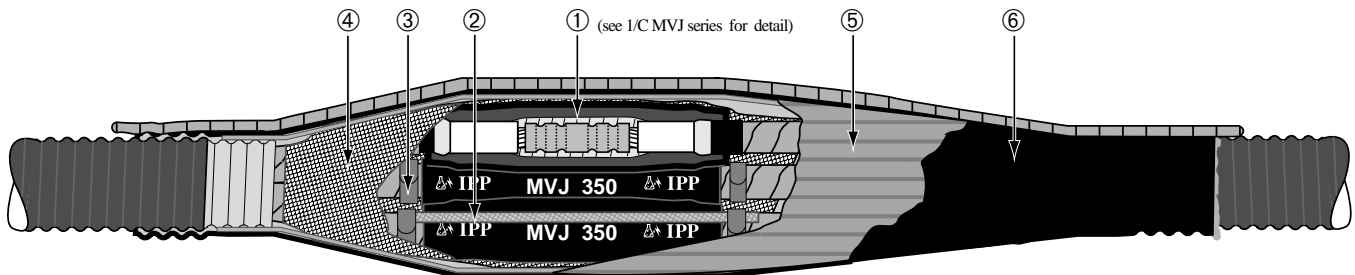
ELECTRICAL SPECIFICATIONS: 35 kV Rated Three-core Armored Joints

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	> 30.3 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 armored 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	⑥	Black jacketing tube	1 per kit	in all kits
②	Tinned Copper Braid	3 per kit	in all kits	•	Cable cleaning kit	1 per kit	P mod (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 Connectors	as req'd	Factory quoted
⑤	Wraparound Armor Case	1 per kit	in all kits	•	Installation Guide	1 per kit	in all kits

Wraparound sleeve - Contact IPP



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	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	80.0

ORDERING INFORMATION

- 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 dimensional data at extremes of size range

- 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).

EXAMPLES:

To splice a 3/C, 35 kV, 1 AWG armored cable to the same cable: **MVJA 3351T**

To splice 3/C, 35 kV, 250 kcmil armored cable to a 3/C, 35 kV, 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.