



MVJA 3050T SERIES

5 kV, 3/C Armored Medium Voltage Joint
Straight joint for three-core armored 2.3-6.6 kV
extruded dielectric shielded power cables

Description

The Innovative Power Products MVJA 3050T series joint is a heatshrinkable system for jointing three-core **armored** 5 kV (2.3-6.6 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 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 3050T 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 3050T 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 3050T kits can be used for size transitions within the actual kit's cable use range. Four (4) kit sizes cover armored cable sizes from 6 AWG through 1000 kcmil. When preparing the cable ends, no pencilling of the insulation is required.

Performance

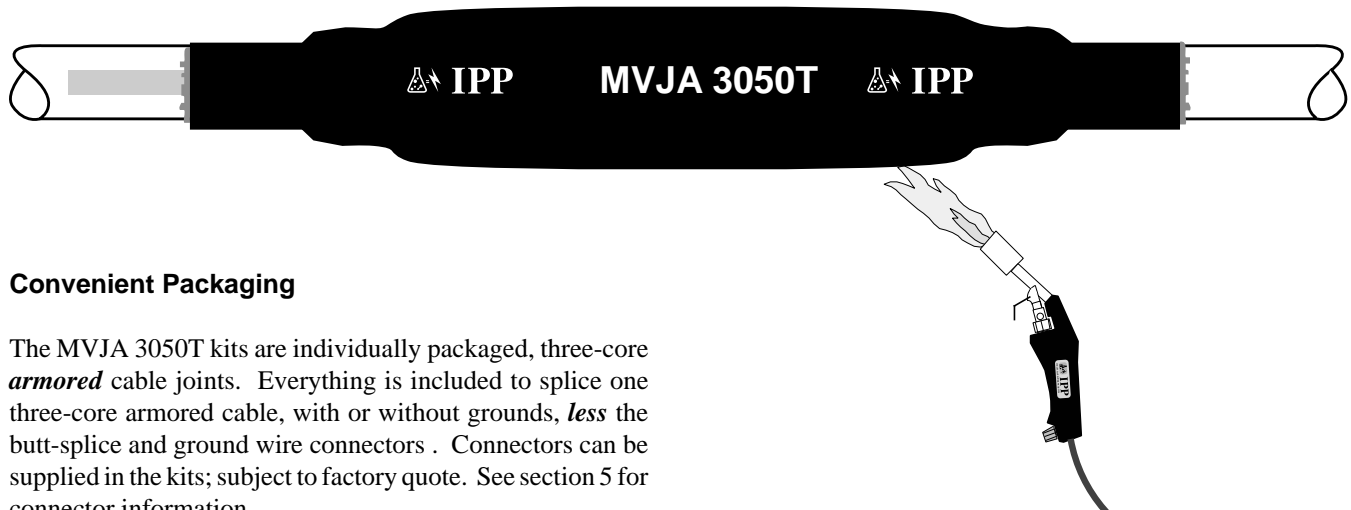
MVJA 3050T kits are factory engineered to provide fast and easy installations with reliable performance.

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 3050T series:

• Price List PL-620



Convenient Packaging

The MVJA 3050T 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.

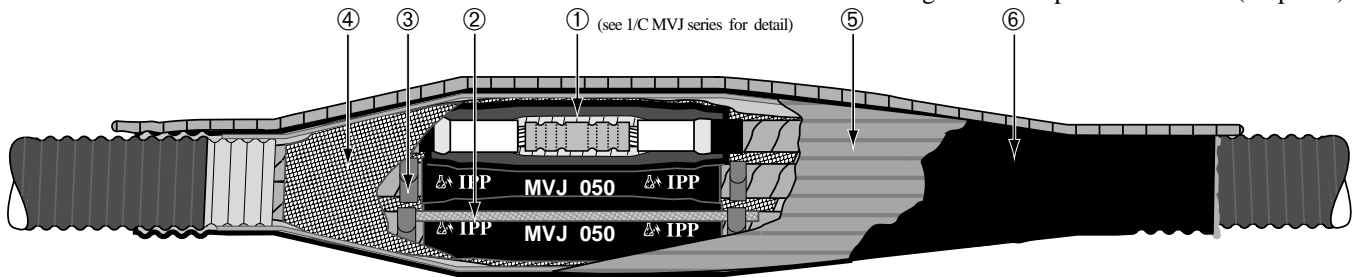
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M.V. Cable
Acc. 5 kV

ELECTRICAL SPECIFICATIONS: 5 kV Rated Three-core Armored Joints

Test Requirement	Value	MVJA 3050T
AC withstand, 1 minute (60 hz)	18 kV	PASS
DC withstand, 15 minutes	35 kV	PASS
Partial Discharge (Corona) Voltage <3pC	4.3 kV	> 4.3 kV
Impulse withstand 1.2 x 50 μs (crest kV)	75 kV	> 75 kV
AC withstand, 1 hour (60 hz)	27 kV	PASS
AC withstand, 5 hours (60 hz)	18 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 050 Joint (<i>no jacket</i>)	3 per kit	in all kits	⑥	Black jacketing tube or Wraparound Sleeve - contact IPP	1 per kit	in all kits
②	Tinned Copper Braid	3 per kit	in all kits	•	Butt-splice Connector*	3 per kit	Factory quoted
③	Constant Force Spring	6 per kit	in all kits	•	Ground Connectors*	as req'd	Factory quoted
④	Tinned Copper Mesh	as req'd	in all kits	•	Installation Guide	1 per kit	in all kits
⑤	Wraparound Armor Case	1 per kit	in all kits	•	Cable cleaning kit	1 per kit	P mod (if spec'd)



Conductor Range	Kit	Catalog Number	Insulation min.	Diameter max.	Connector Length max.	Connector O.D. max.	Installed Length max.
6-1/0 AWG		MVJA 3051T	0.35	0.70	3.00	0.60	48.0
2/0-250 kcmil		MVJA 3052T	0.55	0.90	4.25	0.80	48.0
350-750 kcmil		MVJA 3053T	0.80	1.30	6.00	1.30	60.0
1000 kcmil		MVJA 3054T	1.30	1.60	8.00	1.602	60.0

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 dimensions at the extremes of the 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 3/C, 5 kV, 2 AWG armored cable to the same cable size and construction: **MVJA 3051T**

To splice 3/C, 5 kV, 350 kcmil armored cable to a 3/C, 5 kV, 500 kcmil armored cable cable size with a cable cleaning kit: **MVJA 3053TP**

* **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.