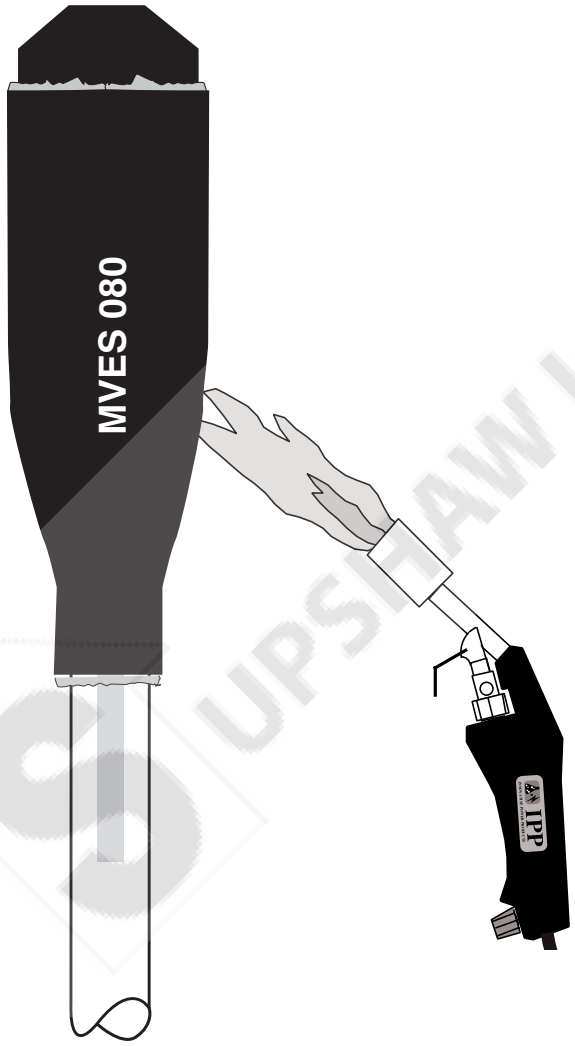
MVES 080 Series

8kV Medium Voltage Live End Seal

Clear cap for single-core 7.2-11kV extruded dielectric shielded power cables

Description

The Innovative Power Products MVES 080 series live end seal is a heatshrinkable system for live ending (clear capping) 8kV extruded dielectric, jacketed power cable that has been abandoned but still energized. The MVES uses an extruded dielectric plug to encapsulate the conductor and special materials to control electrical stress at the plug/cable-end interface and at the shield cutbacks. Field control material is used to control stress over the interface and at the shield cutbacks. Insulating tubings reinstate the cable insulation and insulating shielding tubing reshields the joint and forms an internal seal to the cable's semiconductive layer. Tinned copper mesh reestablishes the metallic shielding around the assembly. An end cap covers the shielded assembly's end. A tough abrasion resistant jacketing tube and sealants provide moisture seals and mechanical protection.



Versatility

MVES 80 kits cover a wide range of conductor sizes. It will accommodate out-of-round or off-tolerance cables. Four (4) kit sizes cover cable sizes from #4 AWG through 1000 kcmil.

Performance

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

MVES 080 live cap performance is based on the design and testing of the IPP MVJ 080 series joint for metallic tape and wire shielded power cables.

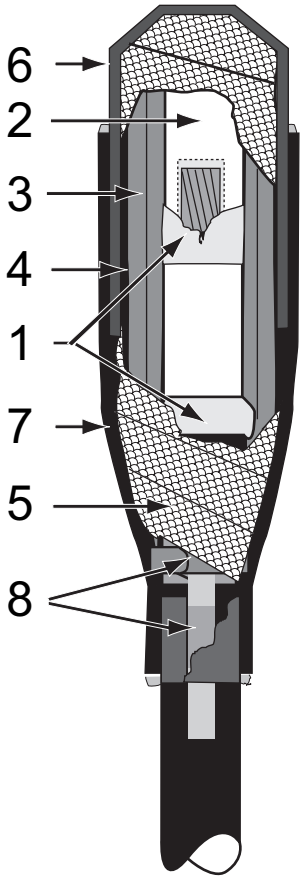
MVES kits are designed to meet the requirements of the applicable sections of the cable accessory standard IEEE-404.

Convenient Packaging

MVES 080 series factory engineered kits are individually packaged single-core kits. Everything is included to live end cap (clear cap), and one single-core cable end.

Related Product Information

MVES 080: Price List PL-624



Electrical Specifications: 8kV Related Accessories

Test Requirement	Value	MVES 080
AC withstand, 1 minute (60 hz)	23 kV	PASS
DC withstand, 15 minutes	45 kV	PASS
Partial Discharge (Corona) Voltage (<3pC)	6.9 kV	PASS
Impulse withstand 1.2 x 50 µs (crest kV)	95 kV	> 95kV
AC withstand, 1 hour (60hz)	34.5 kV	PASS
AC withstand, 5 hour (60hz)	23 kV	PASS
Continuous current rating	Not Applicable	Not Applicable
Submersion test (ANSI C119.1)	PASS	PASS

Bill of Materials: Std. Pkg.(1 kit) 1 ea., 1/C extruded dielectric cable; live end seal

Key	Item Description	Quantity	Supplied
1	Field Control Material	As Required	In All Kits
2	Extruded Dielectric Plug	1 per kit	In All Kits
3	Insulating Tube	2 per kit	In All Kits
4	Shielded Tube	1 per kit	In All Kits
5	Shielding Mesh	As Required	In All Kits
6	End Sealing Cap	1 per kit	In All Kits
7	Jacketing Tube	1 per kit	In All Kits
8	External Ground Kit	1 per kit	In All Kits
-	Cable Preparation Kit (PMod)	1 per kit	When Specified
-	Installation Guide	1 per kit	In All Kits

8kV Selection Guide

Conductor Range *All Dimensions in Inches*	Kit Catalog Number	Insulation Min.	Diameter Max.	Installed Length
#6 - #2 AWG	MVES 081	0.40	0.65	12”
#1 - 4/0 AWG	MVES 082	0.55	0.91	12”
250 - 350 kcmil	MVES 083	0.80	1.25	12”
500 - 1000 kcmil	MVES 084	0.98	1.60	12”

Ordering Information

1. Find the cable’s conductor size in the selection guide above and identify the kit catalog number. This kit will be all that is needed to clear cap one single-core extruded dielectric cable. **Confirm dimensional data before ordering.**

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

P - cable cleaning kit (Pmod)

G - sealed grounding kit (Gmod)

EXAMPLE 1:
For 1/C, 4/0 AWG, aluminum or copper, XLPE, 8kV extruded dielectric cable with cleaning kit:
MVES 082P

EXAMPLE 2:
For 1/C, 250 kcmil, aluminum or copper, EPR, 8kV extruded dielectric cable:
MVES 083

EXAMPLE 3:
For 1/C, 500kcmil aluminum or copper, EPR 8kV extruded dielectric cable with external grounding kit and cable cleaning kit:
MVES 084GP