Deadbreak Apparatus Connectors



600 A 35 kV Class PUSH-OP® Bushing Adapter

Electrical Apparatus

GENERAL

The Cooper Power Systems 600 A, 35 kV Class PUSH-OP® Bushing Adapter is a factory assembled LRTP and Extender with a stainless steel shroud and tin-plated copper probe. It meets all the requirements of IEEE Standard 386 — Separable Connector Systems.

The PUSH-OP has a non-bolted connection that eliminates any need for threading and its associated problems.

The device is used to cap a 600 A PUSH-OP type bushing tap interface with the 200 A loadbreak interface allowing for live testing and visible grounding. The 200 A tap is single-phase switching and three-phase fault close rated. Used with a 200 A insulated protective cap, Cooper M.O.V.E. arrester or grounding elbow, a PUSH-OP Bushing Adapter provides a fully shielded, submersible unit.

INSTALLATION

The PUSH-OP Bushing Adapter is installed on a de-energized 600 A PUSH-OP bushing interface using a hotline tool. Refer to Installation Instruction Sheet S600-19-1 for details. Installation of the factory assembled LRTP and extender to the 600 A PUSH-OP Bushing requires no threading.

PRODUCTION TESTS

Tests are conducted in accordance with IEEE Standard 386.

- AC 60 Hz 1 Minute Withstand50 kV
- Minimum Corona Voltage Level – 26 kV

Tests are conducted in accordance with Cooper Power Systems requirements.

- Physical Inspection
- Periodic Dissection
- Periodic X-ray Analysis

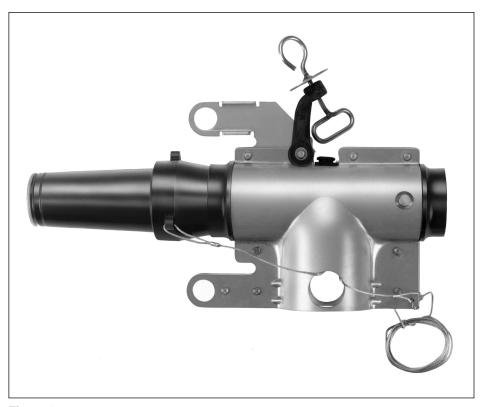


Figure 1.
Insulated Bushing Adapter showing stainless steel shroud and drain wire lead.

TABLE 1 Voltage Ratings and Characteristics

Description	kV
Standard Voltage Class Maximum Rating Phase-to-Phase (LRTP 200 A interface only)	35 21.1
Maximum Rating Phase-to-Ground AC 60 Hz 1 Minute Withstand DC 15 Minute Withstand BIL and Full Wave Crest Minimum Corona Voltage Level	21.1 50 103 150 26

Voltage ratings and characteristics are in accordance with IEEE Standard 386.

TABLE 2
Current Ratings and Characteristics

Description	Amperes	
200 A Interface*		
Continuous	200 A rms	
Switching**	10 operations at 200 A rms at 21.1 kV	
Fault Closure	10,000 A rms symmetrical at 36.6 kV after 10 switching operations for 0.17 s	
Short Time	10,000 A rms symmetrical for 0.17 s 3,500 A rms symmetrical for 3.0 s	

Current ratings and characteristics are in accordance with IEEE Standard 386.

- * If available system fault current exceeds 10 kA, current limiting fusing must be used upstream, otherwise fault close and short time ratings of the 200 A interface will be exceeded.
- ** Switching rating limited to single-phase 21.1 kV.

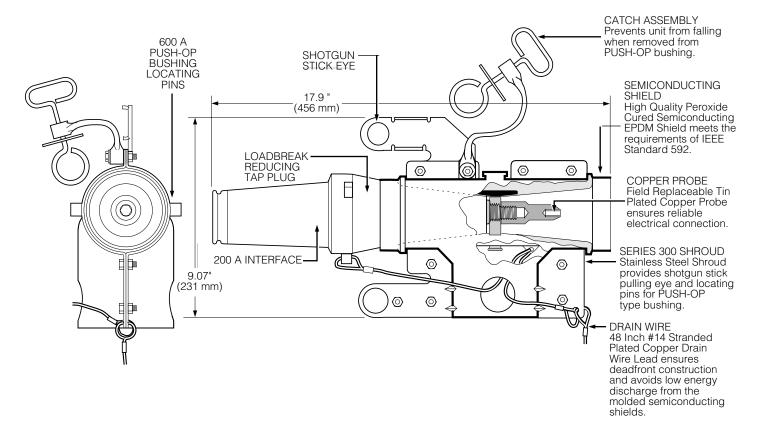


Figure 2.
Cutaway illustration shows design detail and dimensions.

Note: Dimensions given are for reference only.

ORDERING INFORMATION

To order a 35 kV Class PUSH-OP Insulated Bushing Adapter Kit, refer to Table 3.

TABLE 3 Insulated Bushing Adapter Kits

Description	Catalog Number
Bushing Adapter	PDBA635
Bushing Adapter w/200 A Insulated Protective Cap	PDBA635C

Each kit contains:

- Assembled Bushing Adapter
- Shipping Cap (not for energized operation)
- Silicone Lubricant
- Installation Instruction Sheet

TABLE 4
Replacement Parts

Description	Catalog Number
Loadbreak Reducing Tap Plug Probe Catch Assembly	LRTP635 2638198B01B 2638191B01

ISO 9001:2000-Certified Quality Management System



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