Portfolio Offering

Deadfront

3M™ Sensored Cable Accessories (SCA)		Cable Length			Cable Connection	
		4 m	8 m	Other	2-Pin	RJ45
Voltage Sensor						
3M™ Insulating Plug Voltage Sensor (3M IPVS) Family						
15 kV, 1:4,400		●	●	○	●	●
25/28 kV, 1:8,600		●	●	○	●	●
Current Sensor						
3M™ Current Coil Sensor (3M CCS) Family						
600A/225 mV, Rogowski, Open-End		●	●	○	●	
600A/225 mV, Rogowski, RJ45		●	●	○	○	●
Accessories						
RJ45 cable for 3M IPVS		●	●	○		●
Open-end cable for 3M IPVS		●	●	○	●	
1 m grounding for 3M CCS				○		

● ● ● Standard ○ Optional

For more information visit 3M.com/ConnectedSolutions

Electrical Markets Division
13011 McCallen Pass, Bldg. C
Austin, TX 78753 USA
800/200-0265 Fax 877/601-1305
www.3M.com/energy

© 3M 2026. All rights reserved.
3M is a trademark of 3M Company.

Product Selection and Use: Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. As a result, customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer's application, including conducting a workplace hazard assessment and reviewing all applicable regulations and standards (e.g., OSHA, ANSI, etc.). Failure to properly evaluate, select, and use a 3M product in accordance with all applicable instructions and with appropriate safety equipment, or to meet all applicable safety regulations, may result in injury, sickness, death, and/or harm to property.

Warranty, Limited Remedy, and Disclaimer: Unless a different warranty is specifically stated on the applicable 3M product packaging or product literature (in which case such warranty governs), 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ARISING OUT OF A COURSE OF DEALING, CUSTOM, OR USAGE OF TRADE. If a 3M product does not conform to this warranty, then the sole and exclusive remedy is, at 3M's option, replacement or repair of the 3M product or refund of the purchase price. Warranty claims must be made within one (1) year from the date of 3M's shipment.

Limitation of Liability: Except for the limited remedy stated above, and except to the extent prohibited by applicable law, 3M will not be liable for any loss or damage arising from or related to the 3M product, whether direct, indirect, special, incidental, or consequential (including, but not limited to, lost profits or business opportunity), regardless of the legal or equitable theory asserted, including, but not limited to, warranty, contract, negligence, or strict liability.

Disclaimer: 3M industrial and occupational products are intended, labeled, and packaged for sale to trained industrial and occupational customers for workplace use. Unless specifically stated otherwise on the applicable product packaging or literature, these products are not intended, labeled, or packaged for sale to or use by consumers (e.g., for home, personal, primary or secondary school, recreational/sporting, or other uses not described in the applicable product packaging or literature), and must be selected and used in compliance with applicable health and safety regulations and standards (e.g., U.S. OSHA, ANSI), as well as all product literature, user instructions, warnings, and limitations, and the user must take any action required under any recall, field action or other product use notice. Misuse of 3M industrial and occupational products may result in injury, sickness, or death. For help with product selection and use, consult your on-site safety professional, industrial hygienist, or other subject matter expert. For additional product information, visit www.3M.com.

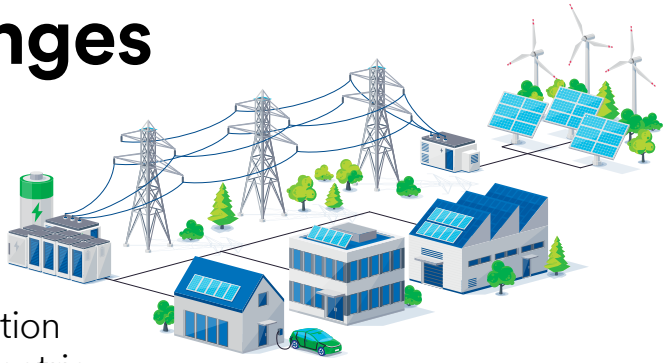
For Industrial Use Only.



Harnessing the power of sensors and cable accessories together.

Helping Our Customers Meet Their Modern Grid Demands with Enhanced Visibility and Reliability Through High-Accuracy Sensors

Navigating the challenges of the evolving grid.



Power grid operators face significant challenges in improving reliability and efficiency due to complexity, partially driven by the integration of renewable energies and the deployment of electric vehicles (EVs). Some of the key challenges addressed by accurate medium voltage and current sensing include:

- **Grid visibility:** Many grid operators lack visibility of voltage and current measurements in their network. The lack of visibility can hinder proactive fault detection and outage mitigation. Instrumenting the grid with voltage and current sensors at important connections can provide visibility.
- **Grid capacity:** Increased power needs are being required to support additional demand requirements at customer facilities. Additionally, distributed energy resources and the scaling of EV charging infrastructure require expansions to the grid. Voltage and current sensing can provide the data needed to determine when and where to add capacity.
- **Power quality:** Power quality issues can cause difficulties for grid operators. Monitoring voltage fluctuations throughout the grid and detecting bi-directional power flow can help utilities/grid operators mitigate adverse impacts to power quality.
- **Budget:** Traditional sensing solutions require costly equipment and increased maintenance to improve visibility. New voltage and current measurement solutions now provide lower cost options to help utility/grid operators meet their budget needs.
- **Resources:** Limited resources for developing new specifications and a shortage of experienced personnel for installation pose additional hurdles helping grid operators reduce their potential resource challenges.
- **Carbon footprint and sustainability:** Grid operators are looking to extend the life of their existing equipment. Upgrading existing equipment with voltage and current sensing helps grid operators extend the life of their existing equipment, therefore helping them reduce their need for new equipment.

As the demand for energy increases, it's critical we rethink our grid architecture.

3M remains at the forefront of technologies helping enable electrical grid operators transition for a sustainable future.

Addressing these challenges requires improved grid visibility. 3M's sensored cable accessory platform provides the needed visibility to help grid operators optimize their operations and expansion planning—helping grid operations provide a resilient and sustainable energy infrastructure.

The benefits of transitioning to sensored cable accessories.

To help grid operators achieve seamless integration of renewable energy generation, effectively manage EV charger demand and enhance the reliability of medium voltage power systems, it's crucial to measure voltage and current in both primary and secondary substations.

3M™ Insulating Plug Voltage Sensor and 3M™ Current Sensors



3M Sensored Cable Accessories combine industry-standard medium voltage cable accessories with high-accuracy voltage and current sensors. The 3M™ Insulating Plug Voltage Sensor (3M IPVS) can interface with various monitoring and control devices. Additionally, the existing equipment can be retrofitted using 3M industry-standard retrofit components within the required cable accessory.

These solutions enable grid operators to upgrade medium voltage connections into monitoring points to align with the low power instrument transformer (LPIT) IEC 61869-10 and IEC 61869-11, and the intelligent electronic device (IED) or protection relays inputs that are compliant with LPIT standards.

Features and benefits:

- **Economical:** Retrofit solution provides grid operators the option of upgrading without the need for time-consuming and expensive investments
- **High accuracy sensing:** Capacitive voltage divider technology provides high accuracy at higher frequencies
- **Lower cost:** Reduced installation cost compared to traditional instrumentation solutions
- **Broad compatibility:** The 3M IPVS output meets the IEC 61869-11 requirements for capacitive voltage divider sensors
- **Less cable:** Unique architecture combines signal and grounding technology within the 3M IPVS to enable voltage and current measurements so only one cable is needed to connect to the IED
- **Ease of installation:** Upgrading the network with the installation of a cable accessory versus a conventional voltage transformer
- **Capacitive design:** The 3M IPVS is based on a capacitive divider, that has a galvanic isolation, thus reducing the size of the 3M IPVS, helping to prevent height constraints in compact switchgears



Product Details

- 3M IPVS is compatible with IEEE 386 deadbreak connectors
- Compact design prevents height constraints into compact switchgears
- 15/25/28 kV voltage class
- Factory-calibrated, highly accurate, low-power passive voltage transformer based on a capacitive voltage divider
- Sensors offer precise measurement without calibration on site