Combining Power and Data into a Single Solution

Appleton[™] PlexPower[™] IEC Fiber Panel Technology and Application Guide.

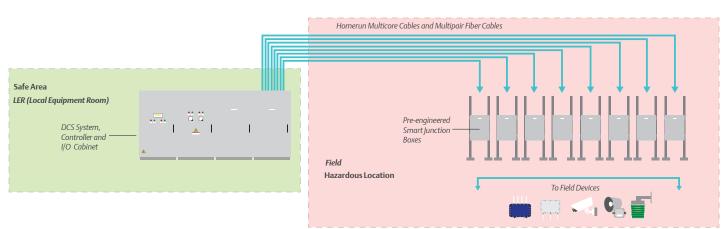


Innovative Design Meets Intelligent Technology

Typically, in hazardous location facilities, data and power are routed from two separate enclosures in a control room located in the safe or non-hazardous area. This results in separate cables for power and data from each and every field device being fed back to the control room. With this configuration, installations are more complex, maintenance times are longer and cabling costs are significantly higher.

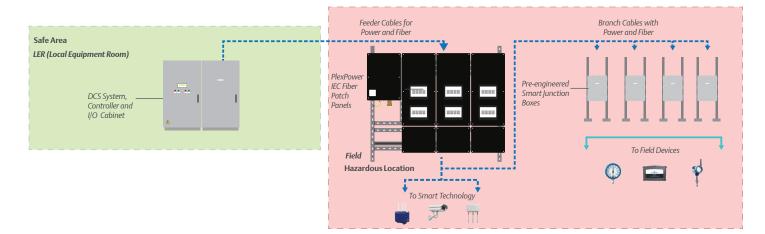
Through unprecedented engineering and design, the Appleton[™] PlexPower[™] IEC Fiber Panel by Emerson answers the need for simplified process monitoring and data communications. Utilizing the technology of our PlexPower panelboards, the PlexPower IEC Fiber Panel combines power distribution technology and instrumentation/process monitoring together into a single solution for hazardous, wet and corrosive environments.

Our PlexPower IEC Fiber Panels bring cables from up to 24 field junction boxes back to one enclosure located in the hazardous area, drastically reducing the number of long dedicated cable runs while also limiting potential failure points. Field junction boxes can also be connected to multiple PlexPower Fiber Panels, creating redundant pathways to increase reliability.



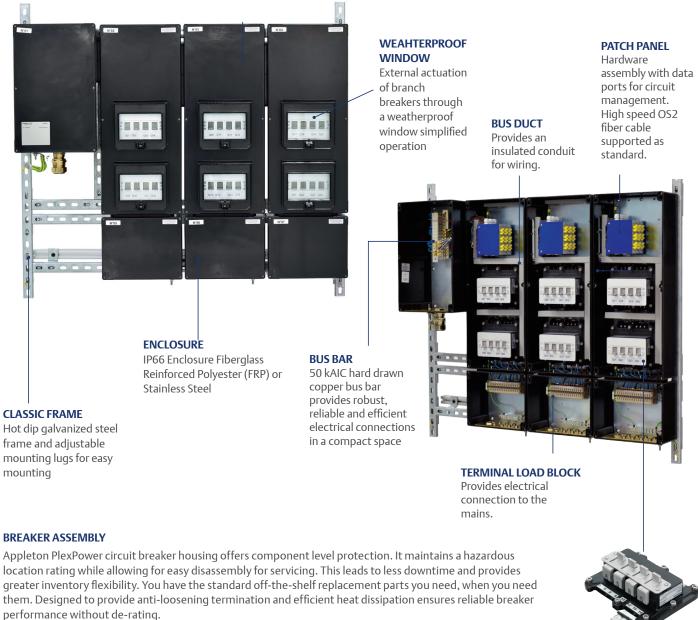
Before PlexPower IEC Fiber Panels

After PlexPower IEC Fiber Panels



Break With Tradition

Boasting Zone 1-2 and 21-22 $IIB+H_2$ certifications, the Appleton PlexPower IEC Fiber Panelboard provides end users flexibility and convenience in a smaller, light weight footprint.



- **1. Rugged Termination:** Breaker housing connects to the panelboard by means of line terminations.
- 2. Flameproof enclosure housing: Labyrinth joint construction and flame arrestors.
- **3. Venting plate:** Unique design of breaker housing allows safe heat dissipation, while eliminating nuisance tripping.
- Field Replaceable Breaker: Standard, off-the-shelf circuit breakers are easy to obtain and reduce inventory costs and downtime.



Smarter Technology in a Hazardous **Location Facility**

With the presence of flammable gases and vapors, hazardous locations around the world demand electrical products engineered to provide proper protection from dangers like heat or spark-induced ignition. Our engineers have developed innovative advancements in supplying power and data throughout a facility.



2. Feeder Cables for Power and Fiber 2-6 AWG single phase. 24-96 pair fiber optic.

Supports composite and separate cables.



3. PlexPower IEC Fiber Panel

Hazardous certified panel(s) with IP66 and Type 4X Environmental Ratings in Hazardous (Classified) Area.



12-14 AWG single phase. 2-4 pair fiber optic. Supports composite and separate cables



1. Network / Power Cabinet Feeder cable(s) originate in the safe area control room.

5b. Field Junction Box

Instrumentation junction boxes located throughout the facility's hazardous area. Field devices are hardwired or connected wirelessly.

5c. Smart Technology

- Industrial Router
- Wireless Access Point (WAP) System
- Other Process Field Devices

5a. Emerson Smart Junction Box

Smart junction boxes located throughout the facility's hazardous area. Field devices are hardwired or connected wirelessly.

6. Field Devices

- Measurement Devices
- Pressure Transmitter
- Wireless Pressure Gauge



Improved network topology utilizing Emerson's electrical and automation expertise.



Appleton is the cornerstone brand of Emerson's Electrical Apparatus and Lighting business; trusted worldwide to make electrical installations safer, more productive and more reliable.

Espace Industriel Nord

T +33 3 2254 1390

China Sales Office

T +86 21 3338 7000

35, rue André Durouchez,

80084 Amiens Cedex 2, France

Europe

ATX SAS

CS 98017

Shanghai

United States (Headquarters) Appleton Grp LLC 9377 W. Higgins Road Rosemont, IL 60018 United States T+1 800 621 1506

Australia Sales Office Bayswater, Victoria T +61 3 9721 0348

Korea Sales Office Seoul T +82 2 3483 1555

Q

in

T +82 2 3483 1555

Emerson.com

ffice Jebel Ali- Dubai Office

LinkedIn.com/company/emerson

Emerson, Building A Appleton Group Jebel Ali Free Zone- South T +971 4 811 81 00 **Canada** EGS Electrical Group Canada Ltd. 99 Union Street Elmira ON, N3B 3L7 Canada T +1 888 765 2226

Middle East Sales Office Dammam, Saudi Arabia T +966 13 510 3702 Asia Pacific

EGS Private Ltd. Block 4008, Ang Mo Kio Ave 10, #04-16 TechPlace 1, Singapore 569625 T +65 6556 1100

Chile Sales Office Las Condes T +56 2928 4819

Latin America

EGS Comercializadora Mexico S de RL de CV Calle 10 N°145 Piso 3 Col. San Pedro de los Pinos Del. Álvaro Obregon Ciudad de México. 01180 T +52 55 5809 5049

India Sales Office Chennai T +91 44 3919 7300



The Emerson logo is a trademark and service mark of Emerson Electric Co. Appleton is a registered trademark of Appleton Grp LLC. All other marks are the property of their respective owners. \square 2019 Emerson Electric Co. All rights reserved.

CONSIDER IT SOLVED