

# ENGINEERING AND DESIGN



### Emergency Response:

At Power Bus Way we're known for our ability to react quickly in emergency situations, often delivering a permanent solution within days.



## TECHNICAL SPECIFICATIONS OF POWER BUS WAY CABLE BUS

Voltage range	Up to 69kV
Current range	Up to 8,000A
Cable types (in both Aluminum and Copper)	USA: XHHW-2, RHH/RHW-2, MV-105 CANADA: RW90, DLO, MV-105
Available cable sizes	Up to 1000MCM
Cable configurations	3 phase, 3 wire   3 phase, 4 wire   DC
Enclosure size	Up to 12"H x 36"W
Enclosure materials	Aluminum Stainless Steel Painted options available
Certifications (USA)	NEMA VE-1 NFPA 70 Article 370 Compliant
Certifications (CANADA)	CSA C22.2 No. 273-19: Cable Bus CSA C22.2 No. 126-17 CE Code Compliant
Short circuit rating	Up to 200kA
Min/Max ambient temp	-40°C to 60°C (-40°F to 140°F)
Underground options	Precast or cast in place, pedestrian or heavy traffic grade, with or without ventilaton
Cable securing method	Block style, max every 30in

**REQUEST A QUOTE TODAY!**

[quotations@powerbusway.com](mailto:quotations@powerbusway.com)

## POWER BUS WAY



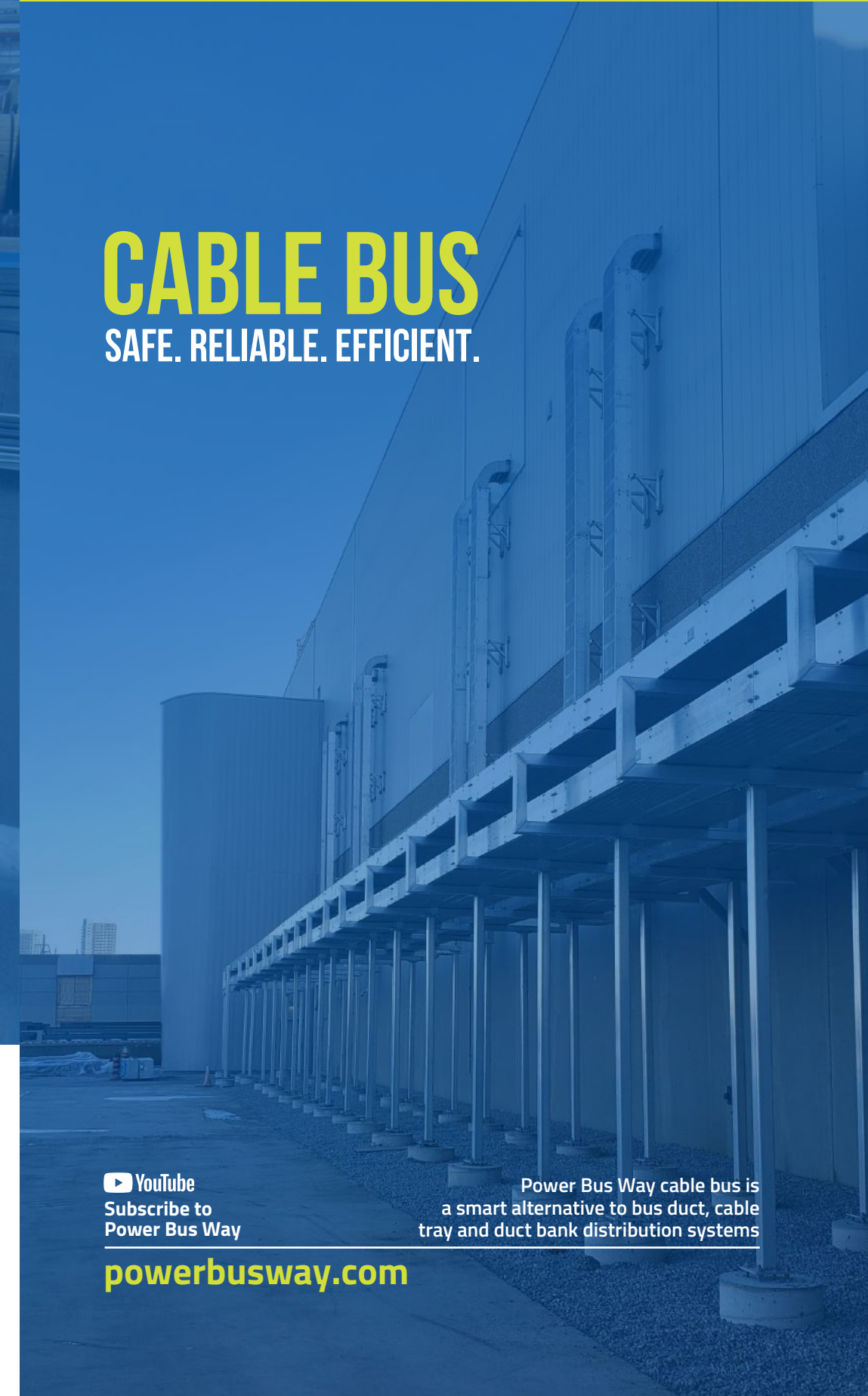
5 Strathearn Avenue  
Brampton, ON L6T 4P1 Canada  
[sales-info@powerbusway.com](mailto:sales-info@powerbusway.com)

Telephone: 905.792.9333  
Toll Free: 1.877.877.2091  
Fax: 905.789.0510



# CABLE BUS

SAFE. RELIABLE. EFFICIENT.



YouTube  
Subscribe to  
Power Bus Way

Power Bus Way cable bus is  
a smart alternative to bus duct, cable  
tray and duct bank distribution systems

[powerbusway.com](http://powerbusway.com)

Our team will design a custom solution to meet your project needs. Our ability to work with clients in difficult and unique situations results in practical systems that are cost-effective, functional, and reliable.

Power Bus Way's engineers are available to assist or oversee an entire installation, ensuring our product meets or exceeds each client's expectations.

Power Bus Way designs and manufactures all of our products in-house. This provides us with the unique ability to fabricate custom parts within days, not weeks.

All of our designs are generated using 3D software, which allows our customers to preview their completed system. This reduces installation time and the potential for field problems. Our designs are compatible with Building Information Modeling (BIM) software.

# POWER DISTRIBUTION... SIMPLIFIED

Power Bus Way cable bus systems are fully engineered to connect large power equipment. It is a smart alternative to bus duct, cable tray and duct bank distribution systems

## Power Bus Way Cable Bus is the perfect solution for:

- Connecting large amounts of current (Up to 8,000A)
- Voltages up to 69kV
- Main incoming feeders between transformers and distribution panels
- Distribution from main switchboards to MCC, UPS, ATS, tap boxes, etc
- Ideal for connecting to mobile generator/load bank quick connect panels
- Underground and/or tamper-proof systems
- Connecting turbines to outgoing power equipment (cogeneration, gas, geothermal, hydro, wind)
- Data center feeders and permanent generators
- Secondary feeders for utility substations
- Hazardous and extreme environments

## Safety & Reliability:

- ✓ Continuous insulated conductors from termination to termination
- ✓ Heavy-duty, durable construction
- ✓ No bolted bus joints or splices
- ✓ No heaters or blowers required
- ✓ No concerns with harsh environments such as rain, snow, or humidity
- ✓ 2 hole, long barrel compression lugs included
- ✓ Cables are braced and contained in the event of a fault
- ✓ Cable bus can be used intermittently for standby power without the worry of a flashover at startup
- ✓ Firestop and environmental seals provided
- ✓ Waterproof equipment entry flanges and cable connectors included

## Cost Effective & Maintenance Free:

- \$ Less expensive than conventional bus duct, and armoured cable & tray
- \$ Fewer and/or smaller conductors to install
- \$ Easily lifted and positioned by two installation personnel
- \$ Fewer structural supports requirements
- \$ Extremely low maintenance requirements
- \$ Lower operating temperatures = less losses
- \$ Replacement or consumable parts not required
- \$ No heaters or blowers required to maintain operational temperature

**OVER 3000 SYSTEMS SUCCESSFULLY COMMISSIONED**



## SERVICES

QUICK DRAWINGS  
FAST MANUFACTURING  
PROMPT ON-SITE RESPONSE

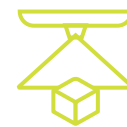


SWIFT DELIVERY



### QUOTATIONS

We strive to provide detailed quotations quickly and accurately, often within 24 hours.



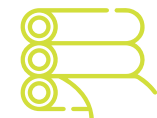
### FIELD SERVICES & 3D SCANNING

Our field services provide accurate 3D scanning and measurements, translating it into optimized layout drawings.



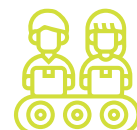
### PROJECT COORDINATION

Our project management team will oversee each project to make sure that updates are communicated promptly. Site coordination will be conducted to ensure a smooth delivery.



### IN-HOUSE FABRICATION

Our efficient in-house manufacturing team can rapidly fabricate all components to your specifications. Our extensive equipment can handle any custom request.



### COMPLETE PACKAGE

Our cable bus systems are neatly packaged with clear and detailed instructions. Each cable bus run includes everything from lug to lug, with assembly diagrams that identifies each and every component.



### CLIENT SUPPORT

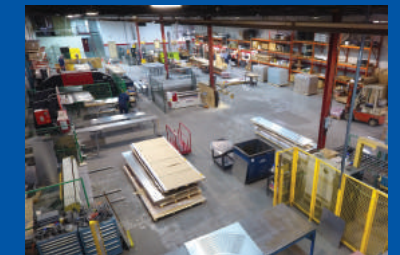
After delivery, we will be there for any urgent questions or issues that may arise before or after installation of the cable bus system.

## PRODUCT CERTIFICATIONS AND COMPLIANCE

- CE Code & NEC compliant
- CSA C22.2 No. 273-19 (cable bus)
- CSA C22.2 No.126-17, NEMA VE-1 (cable tray)
- Up to NEMA 4X (termination and transition boxes)
- 3rd party factory evaluations available for all applicable standards



Cable bus can be used intermittently for standby power (complete with vibration dampening for diesel generators) without the worry of a flashover at startup.



Power Bus Way is a fully ISO 9001:2015 certified facility.



Patented in Canada and the USA  
Proudly built with quality North American products



## CUSTOM ACCESSORIES



Associated custom accessories are manufactured in-house and can be provided quickly as part of your turnkey solution:

Structural supports, mobile generators/load bank quick connect panels, NEMA rated electrical enclosures, bus bar adaptors, and more!