

Starline®

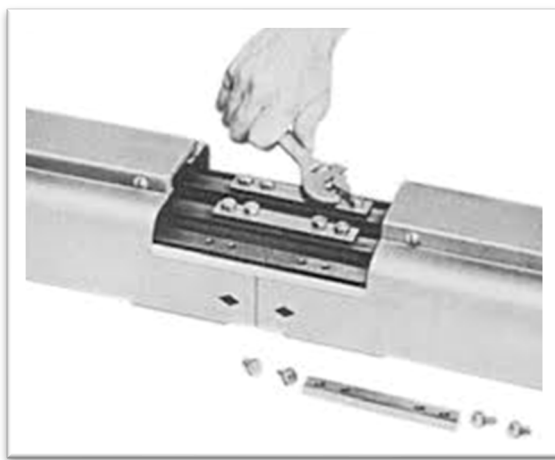
A brand of  legrand®

Key features and benefits of Starline's busway system:

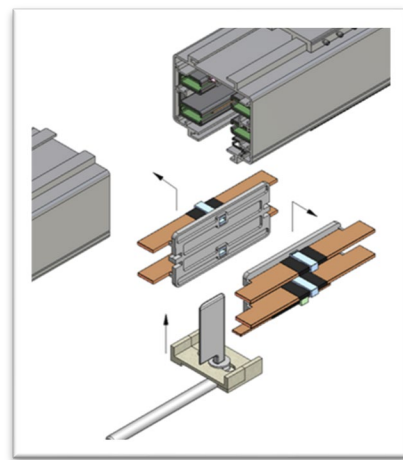
Reliability

Starline offer one of the few busway systems that don't rely on bolted connections to join their electrical conductors. Busway systems that rely on bolted joints introduce potential 'hot-joint' risks requiring routine shutdowns and joint maintenance to reduce the risk of failure.

The patented compression joint used by Starline is unique and eliminates the need for routine maintenance at busway section joints, ensuring data centre uptime is maximised.



A typical busway system showing bolted conductor joints



Starline's compression joint system eliminates the need for bolted connections

Flexibility

A key feature setting Starline apart from other busway products is the continuous access slot design.

Many busway systems use pre-defined points at which plug-in units are able to be attached, as shown in the image below.



A typical busway showing fixed access points for plug-in units

Fixed access points limit the flexibility of plug-in unit positioning, thus preventing the optimisation of plug-in unit layout to suit the actual cabinet layout.

Starline's continuous access slot allows users to insert plug-in units anywhere along each length of busway, accommodating higher density power distribution and readily dealing with different cabinet widths, which are common place in most data centres.



Starline's patented housing design with continuous access slot

Simplicity of design

Insertion and removal of each Starline plug-in unit is a simple process of inserting, twisting and locking, as shown below:



The entire process is simple and can be completed without any tools, which is an important safety issue when working above IT infrastructure.

The Starline track busway system can simplify our client's inventory management, by having the ability to use the same plug-in unit in a 250A, 400A, 500A, 630A, 800A, 1000A or 1250A busway system.

Many manufacturers require a different plug-in unit type for different busway ampacity ratings, reducing the flexibility of the system and complicating on-site stock holdings.

Physical Protection Design

Starline Busway has been designed as a true plug and play electrical distribution system. Many high amperage busbar systems are based on fixed feeder designs, intended for long distances from power source to load with few, if any, connection points along the run (e.g. genset to main switchboard) and can readily be configured with an IP54 rating, or higher.

Starline's Busway is designed for flexible power delivery allowing for many and frequent connection points, delivering the ultimate in site specific configuration. As such, Starline's distribution busway is designed to meet IP2X (or IP3X with optional closure strip installed), which is regarded the world over as an acceptable level of ingress protection for data centres and critical environments. Even systems that are rated as IP54, often lose that rating once plug-in units are installed into the busway.

Starline do have busway products available with an IP54 and IP65 ingress protection rating, designed for more rigid power infrastructure or outdoor installations.

Global Production

The majority of product traditionally supplied into Australia are sourced from Starline's Singapore factory, with the option of also sourcing from factories in the US and UK.

It's important to note that local stock holdings are often held for many of our customers that require fast lead times and have consistency in their product specifications. A discussion around maintaining local stock is the best way to reduce lead times.

Pricing

Pricing of busway systems varies dramatically between the different ampacity ratings and the type of plug-in units deployed as there are many options to choose from, defining the size of each tap off box, the current rating of each outlet, the number of outlets, whether each tap off box includes monitoring and also what type of monitoring unit is used, etc.

Project pricing can be readily provided once a busway layout design is known and plug-in unit configuration has been specified.

Customisation

Starline produce in excess of 100,000 plug-in units per year, with more than 80% of these being customised designs to meet the specific needs of our client base.

Some of the typical features specified include:

- 1, 2, 3 or 4 outlets ranging from 16 Amp to 64 Amp, single or three phase
- Surface mounted outlets or drop cord mounted outlets
- Circuit breaker shroud (lockable)
- MCB fault currents from 6kA to 36kA
- Fuse options in lieu of MCBs
- Phase selection switch
- Power status light
- Power monitoring (wired, wireless, SNMP, Modbus)

Below are some images showing a sample of the many types of plug-in unit configurations that are possible:

