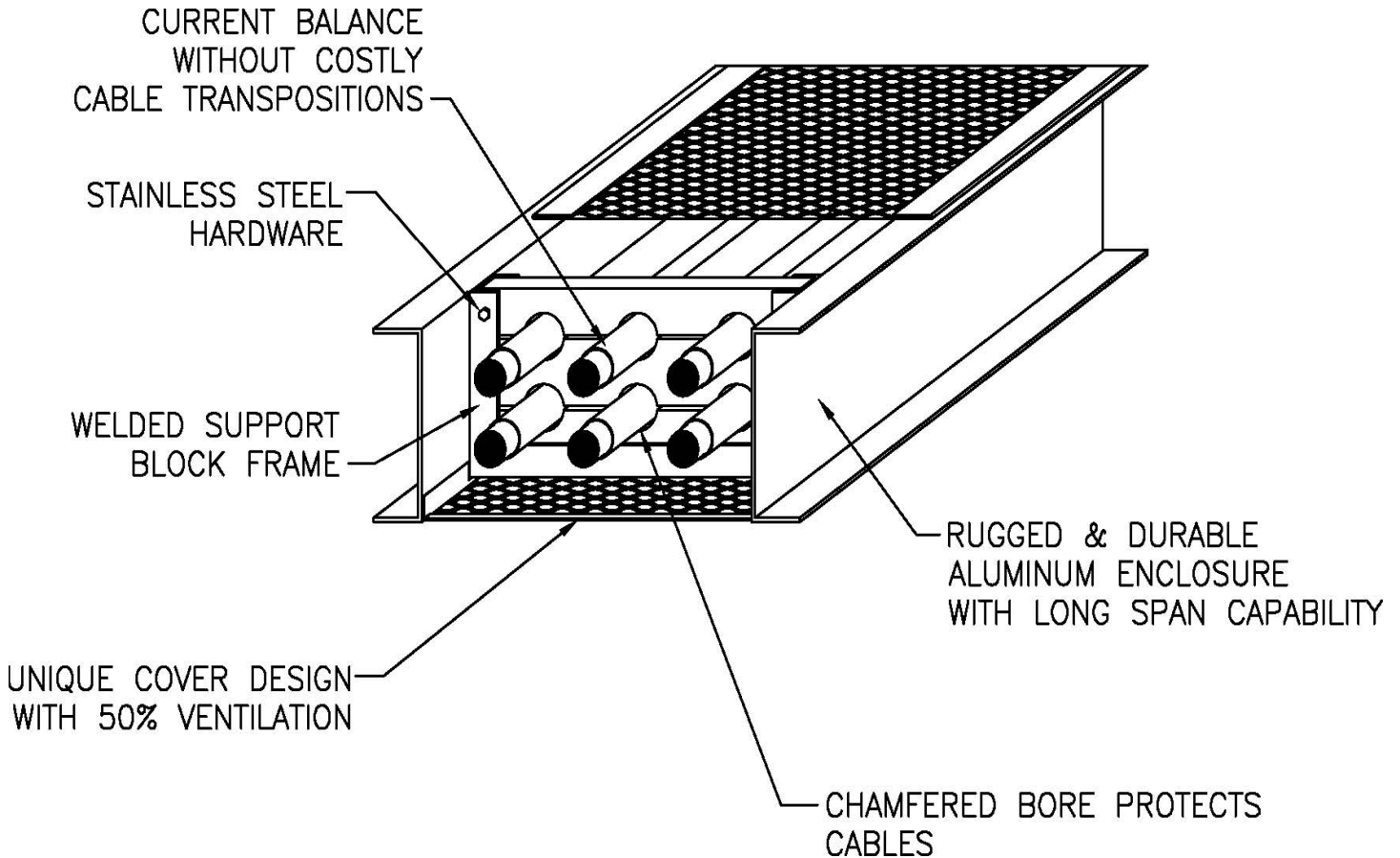


# MDF

## Cable Bus Systems

# MDF Cable Bus Advantage

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The following is a brief discussion of the many design features that make MDF Cable Bus Systems the Best Cable Bus System available on the market!

**Rugged Enclosure**—Our standard 1/8" thick aluminum extruded side rails and block frames constitute the most rugged design available. Most, if not all competitors are using thinner, and lighter designs which are not as suitable for long support

spans and use as an equipment ground conductor.

**Cover Ventilation**— Our unique cover design utilizes a special expanded metal for top and bottom covers which provides the maximum amount of open area for cable ventilation.

The 50% open area in our cover design means our systems have more

than double the ventilation of nearly all competitive designs.

While MDF covers offer more ventilation, the special expanded metal also has the smallest openings of any other design. This prevents rodents and other unwanted objects from entering the bus and damaging the system.

### **Stainless hardware—**

MDF Cable Bus Systems Designs use stainless steel for all hardware used in the system. This includes splice plates, block hardware, cover fasteners, as well as hardware for boxes and accessory items.

Competitors regularly use zinc plated, steel hardware which will corrode at a rapid rate. Steel hardware will also contribute to additional system losses due to the heating of the steel (ferrous material).

### **No Cable Transposi-**

**tions-** All MDF Cable Bus designs are engineered to have balanced currents without cable transpositions. Computer analysis allows us to design our systems with excellent current balance without the need to transpose cables.

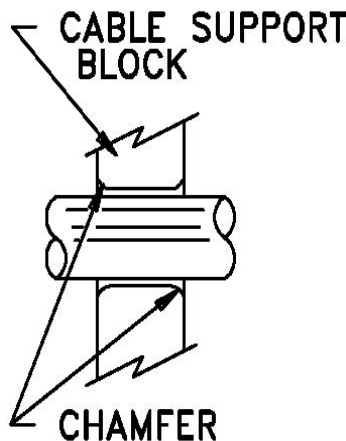
Some competitive designs require cable transpositions within the cable bus system to maintain balanced currents. This adds considerable difficulty, complexity, and cost to the cable bus installation.

**Block Frame—** Our support block frame design provides superior strength to withstand short circuit forces. The frame also simplifies installation compared to competitive designs that

only utilize through bolts to secure the cable support block

On the competitive designs that use only through bolts, the through bolts have to be installed and then removed during installation as each successive layer of cables is installed. This adds to installation labor and causes considerable problems on vertical risers since there is nothing to keel the blocks in place as the through bolts are removed.

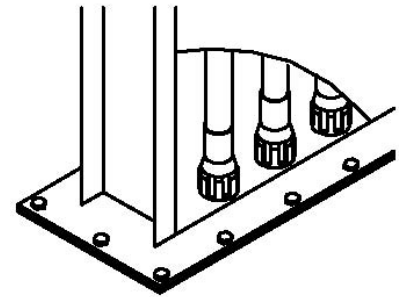
“Trough Bolt Only” designs are also more susceptible to potential cable damage caused by over tightening the hardware.



**Chamfered Bore—** The cable bores on our cable support blocks are chamfered to prevent any undue stress on cable insulation. The cable bore is machined with a smooth radius on each side of the bore to prevent the cables from coming into contact with a

sharp edge.

Several competitive designs do not offer this feature and subject the cable to a sharp edge at each cable support block.



### **Watertight Seals—**

Our outdoor equipment seals for vertical bus penetrations into outdoor equipment are far superior to competitive designs.

MDF's outdoor seals employ heat shrink cable seals which provide an excellent water tight seal for the life of the equipment.

Competitive designs simply use a wall penetration style seal which consists of a cable support block sealed to a plate with RTV caulking. These seals may be well suited for wall penetrations but are not appropriate for vertical penetrations into outdoor gear where failure of the seal may cause considerable damage and down time to the system.