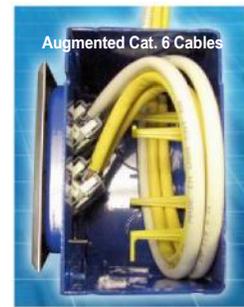




*Install Peace Of Mind...*



***Brought to you by F&G Controls Inc.***

**5 Square® Telecom Box Benefits and Related Cost Savings:**

- The physical size, depth, volume, and cable management of the 5 Square Telecom Box provides for minimum bend radius requirements, per cable manufacturers, for today and tomorrow's high speed copper and optical fiber cables.
- Historically, infringement of cable bend radii was not an issue, but due to current and future transmission rate increases, bend radius observance is now very critical. The 5 Square Telecom Box supports categories 5e, 6, Augmented 6, 7, Augmented 7, and optical fiber cables as well as expected future generations of cable sizes.
- Integrated cable management forces technicians to place the cables around the outer perimeter of the cable management posts, thereby preventing kinked and over-bent cables ensuring proper data transmission.
- Easier and more uniform installation between technicians - reduces installation variation.
- Once installed in the wall, the 5 Square provides for quick and easy cable upgrades without the need to open walls to replace old technology 4 square and 4-11 boxes that are not intended for today's cable sizes and bend requirements.
- The 5 Square's size allows for recommended slack cable per BICSI in the box. This is not possible in 4 square and 4-11 boxes. The 5 Square cost savings impact is that it eliminates the need for a second technician in a remote location, such as a ceiling or closet, to assist pushing/pulling cables back up the conduit after termination of connectors.
- Likewise, future maintenance and repair is much quicker, easier, and cost-effective with the 5 Square Boxes with slack cable due to it being a one man operation. A smaller box without slack cable requires two technicians even for maintenance and repair.
- The ability to work at the 5 Square Boxes with only one technician is extremely valuable on all projects. We're all aware of general contractors' frustration with technicians lifting ceiling tiles after initial placement due to the frequency of damage to those tiles and debris deposited on the floor below. This situation becomes even more critical in health care facilities when opening ceilings is either completely prohibited or greatly discouraged because of the potential spread of bacteria.

***Create a Robust and Unrivaled Infrastructure for the Life of your Facility with  
the 5 Square® Products!***

Contact F&G Controls Inc. Calgary, Alberta (403) 995-6110



# **RANDL**

**INDUSTRIES, INC.**

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## **5Square® Fire Signal Box Benefits and Related Cost Savings:**

- The added width and volume of the 5 Square eliminates ground faults and short circuits by doing away with pinch points and overcrowding of the appliance and conductors, subsequently eliminating associated troubleshooting time.
- The added width and volume significantly reduces stress on the appliance terminals resulting in fewer damaged appliances.
- The added room around the appliance also tends to reduce the need to train conductors away from the appliance; speeding installation time.
- Cooper Wheelock allows the 5 Square products to contain a full complement of conductors per NEC Table 314.16(B). Manufacturers realize that smaller boxes tend to create ground faults and short circuits and can damage their products. Other boxes may only contain the number of conductors that terminate on the appliance per manufacturers' requirements. The benefit of this added volume and full complement of conductors is additional circuits and zones may be pulled through the 5 Square which in turn may reduce conduit.
- The 5 Square x 4 square plaster ring mounting holes are precisely stamped and tapped, which allows for quick and easy installation of the appliance. Typical 4 square box extensions have folded screw tabs for mounting appliances and tend to be slightly out of square which can cause screw centers to be off slightly. The impact of this when mounting an appliance to an extension box is the first screw goes in straight, but the second screw may end up at an angle causing the installer to force the screw to cut new threads. Many times this causes the screwdriver tip to slip while under pressure and can easily gouge or scratch the appliance and/or wall. Even by leveling the box, if the extension box is not square the mounting screw holes will tend to cause the appliance to not be level, especially when the appliance does not have a separate outer trim cover. Have you ever noticed appliances that are not level while walking through building? This is a cause!
- The physical size of the box makes wire pulling much easier as well as saves knuckles from being skinned and cut as much.
- Start-up is much quicker and easier, especially at the end of projects when crunch time occurs and troubleshooting ground faults and short circuits is no longer a major issue.

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