



3-14-2-Cabling-2019-3-8.odp

CTI One Corporation

Version: x0.1

Date: March 8, 2019

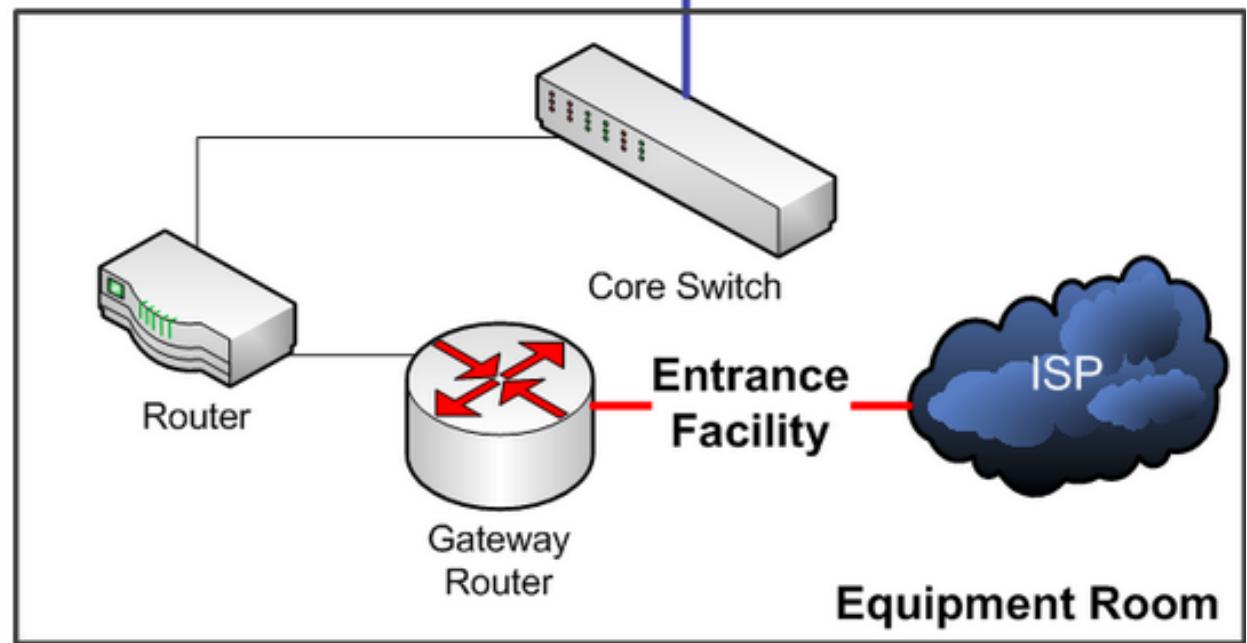
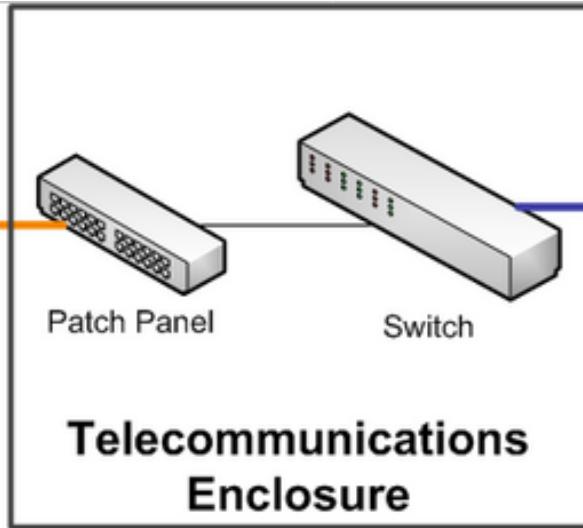
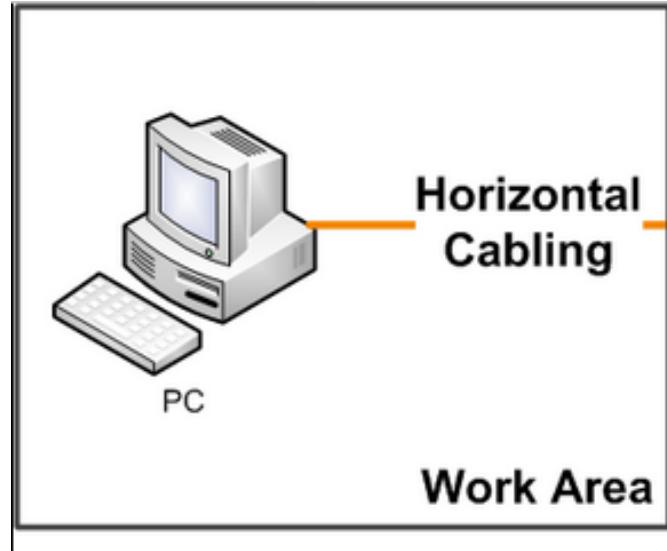
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Team members: Barry Jia



Structured Cabling IT Cabling Standards

https://en.wikipedia.org/wiki/Structured_cabling





Cable Management





Cable Management Parts List

Versi-Duct™ Slotted Duct Cable Management System

Description

- [A] Vertical Front and Rear Slotted Duct, 4"x5" front/4" x4" rear
Vertical Front Only Slotted Duct, 4"x5"
- [B] Horizontal Front and Rear Slotted Duct, 2RU, 3"x3" front/2"x4" rear
Horizontal Front Only Slotted Duct, 2RU, 3"x3"
- [C] Horizontal Front and Rear Slotted Duct, 1RU, 1.5"x3" front/1.5"x 4" rear
Horizontal Front Only Slotted Duct, 1RU, 1.5"x3"
- [D] Slack Loop Storage Organizer
- [E] Vertical Divider
- [F] Lateral Divider, 5" front
Lateral Divider, 4" rear
- [G] Bend Radius Compliant Router
- [H] Mounting Bracket
- [I] Cable Retainer



Cable Management Parts List



*SpaceMaker
Retrofit*



Structured Cabling Example





Structured Cabling Example 2





Structured Cabling Example 3





Structured Cabling Example 4



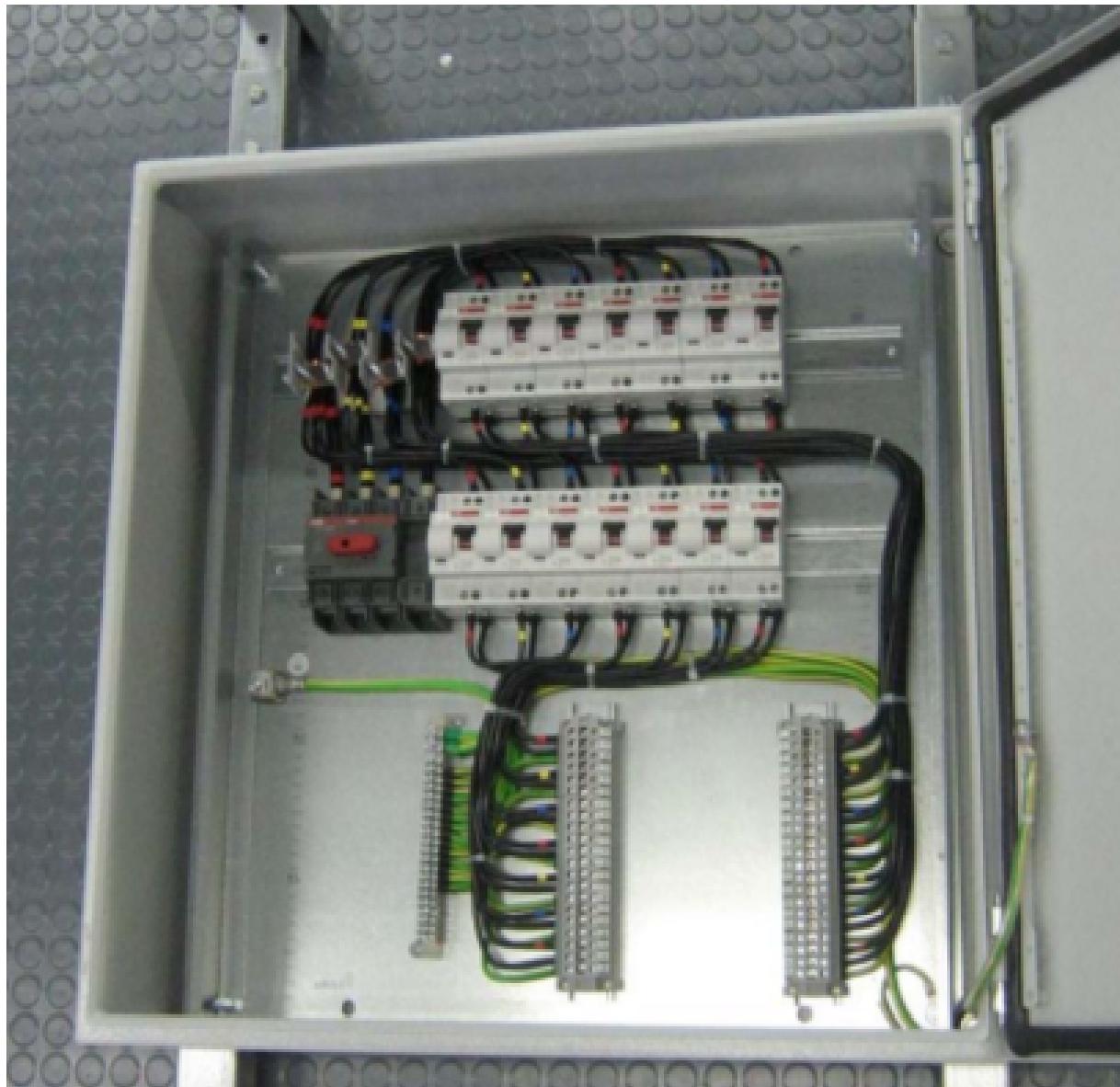


Structured Cabling Example 5

VERSATILE PANEL

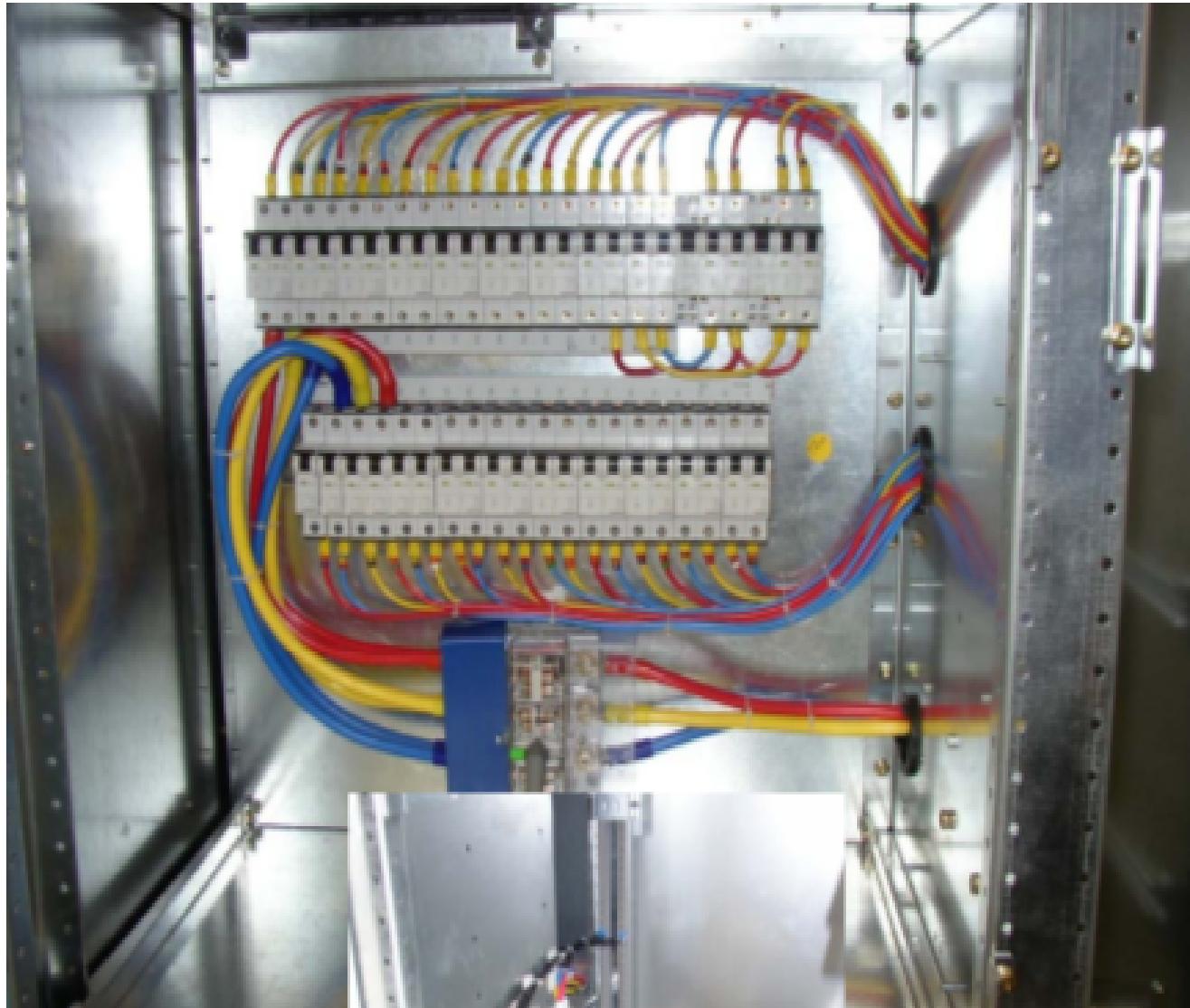


Instrumentation Cabling Example 1



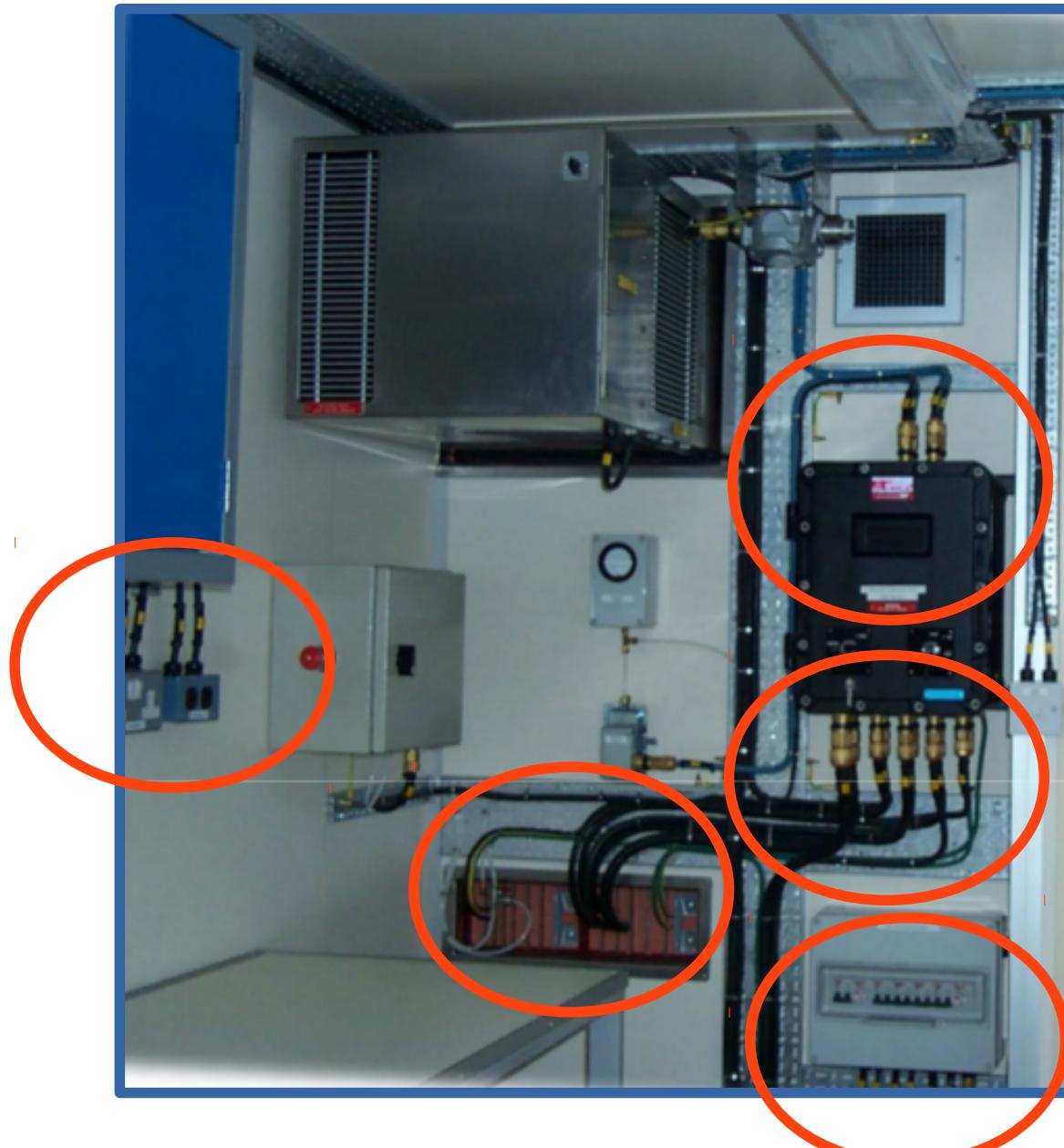


Instrumentation Cabling Example 2





Instrumentation Cabling Example 2-1





Instrumentation Cabling Example 3



Instrumentation Cabling Example 4

GLANDING & EARTHING MISCELLANEOUS DETAILS 'A' & 'B'

GREEN/YELLOW COLOURED
EARTH TERMINALS
(E.G. KLIPPON TYPE EK)
MOUNTED ON COPPER
DIN RAIL. STEEL IS
NOT ACCEPTABLE.
POWER, SIGNAL OR
SCREEN TERMINALS MUST
BE MOUNTED ON
A SEPARATE RAIL.

MIDDLE SCREW CLAMPS
TERMINAL TO DIN RAIL
THIS CLAMP PROVIDES
THE CONTINUITY REQUIRED
BETWEEN THE TERMINALS
VIA THE DIN RAIL.

COPPER BRAID USED AS
P.E. CONDUCTOR

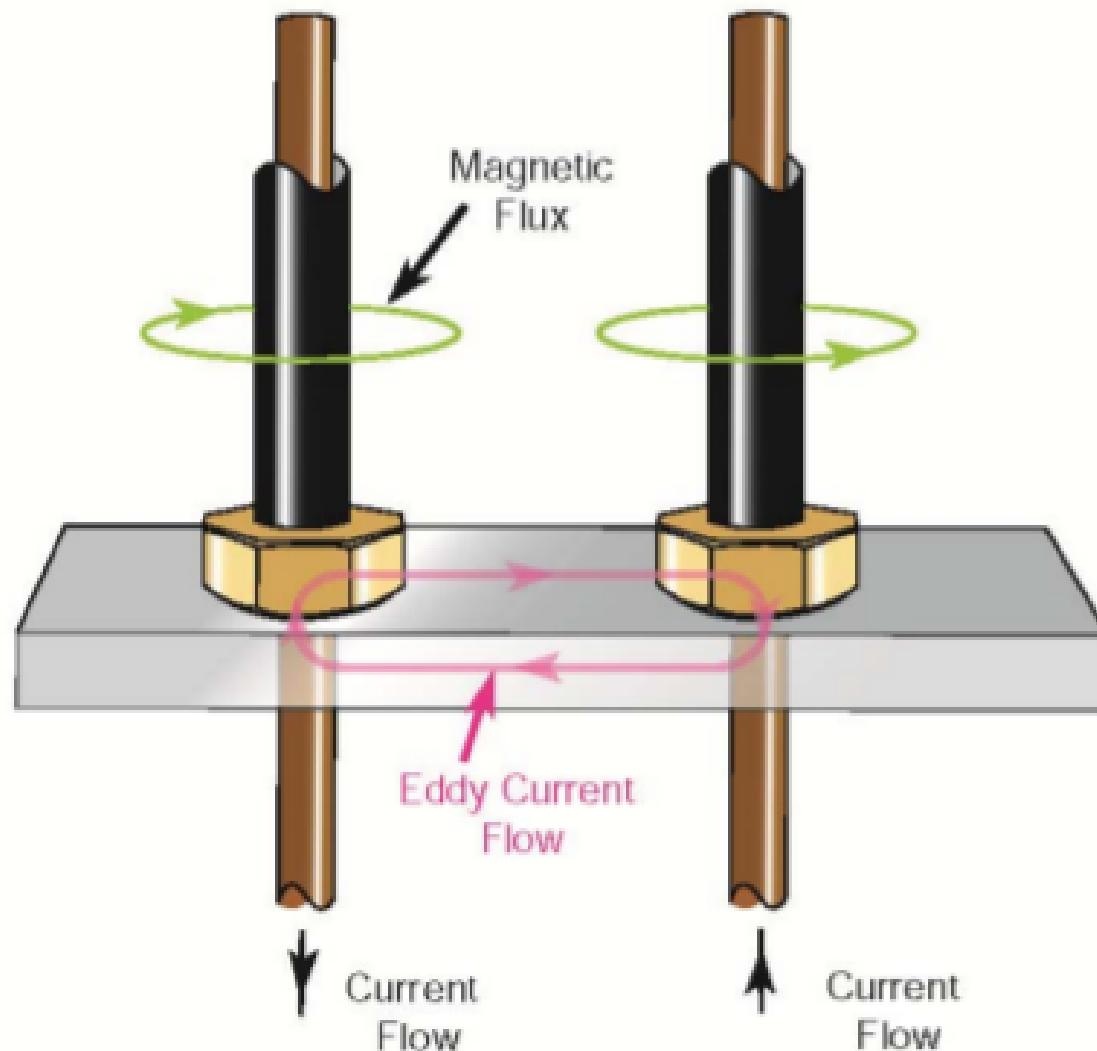
POWER OR SIGNAL
OR SCREEN
TERMINALS MOUNTED
ON A SEPARATE
RAIL FROM THE
EARTH TERMINALS

EARTH CONTINUITY WIRE

ONLY ONE P.E. CONDUCTOR
IS TO BE TERMINATED
IN EACH SIDE OF EACH TERMINAL.

Instrumentation Cabling Eddy Current

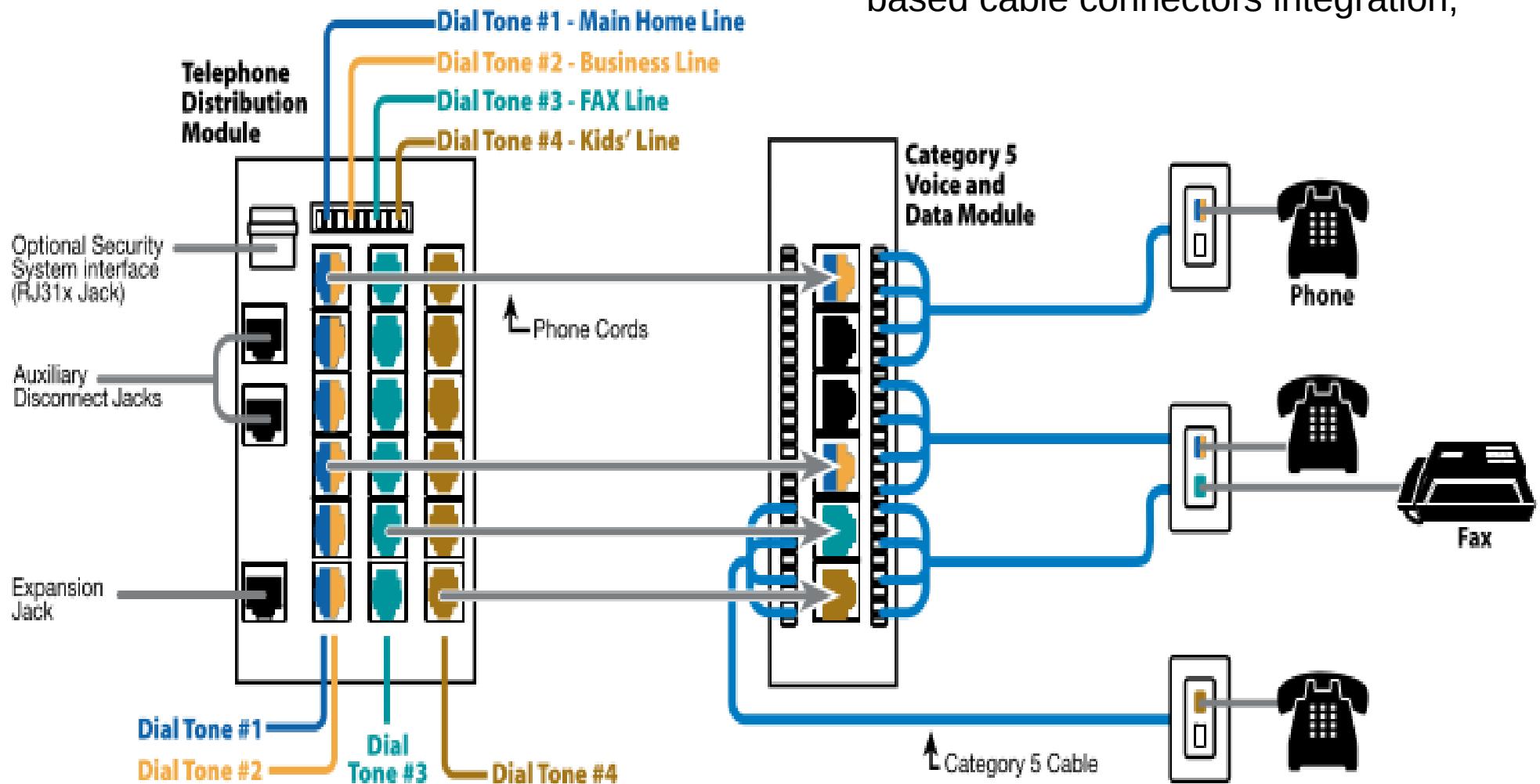
Eddy currents can overheat iron or steel cabinets, locknuts or bushings or any ferrous metal that completely encircles the single conductor cables. This presents no problem in multi-conductor cables, where the magnetic fields tend to cancel each other out. For single core cables, it is recommended that these cables enter metal enclosures through a non-ferrous plate such as aluminum





Configuration Example

1. color coded cables; 2. module based cable connectors integration;





Cabling Design Example for AGV2000

