

PART 1 - GENERAL

- 1.1 RELATED WORK
- .1 Section 26 05 28 - Grounding and Bonding.
 - .2 Section 26 05 29 - Hangers and Supports for Electrical Systems.
 - .3 Section 26 05 32 - Outlet Boxes, Conduit Boxes and Fittings.
 - .4 Section 26 05 34 - Conduits, Conduit Fastenings and Conduit Fittings.
 - .5 Section 26 05 36 - Cable Trays for Electrical Systems.
- 1.2 SYSTEM DESCRIPTION
- .1 Provide a complete telephone, Access Control, CCTV, and communication raceway system including:
 - .1 Outlet boxes.
 - .2 Pullboxes.
 - .3 Conduits.
 - .4 Sleeves and caps.
 - .5 Terminal cabinets.
 - .6 Pull wires.
 - .7 Distribution cabinets.
 - .8 Service fittings.
 - .9 Sectional tray.
 - .10 Underground ducting.
 - .11 Cover plates.
 - .12 Plywood backboards.
 - .2 Provide all other requirements for a complete the raceway system, including pull boxes, covers, mounting hardware and accessories.
 - .3 Ensure that all communication wire and cable is installed in conduit and cable trays.
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PART 2 - PRODUCTS

- 2.1 MATERIAL - MISCELLANEOUS
- .1 Refer to appropriate section in Division 26.
 - .2 Plywood backboards to be 20 mm, finished painted.
- 2.2 CEILING SOUND PULL BOXES
- .1 To facilitate future additions, provide 100 x 100 mm pull boxes above the nearest accessible ceiling where speakers are indicated.
- 2.3 WALL OUTLETS
- .1 Provide flush 100 x 100 mm deep boxes with plaster rings.
- 2.4 CONDUITS
- .1 Minimum size of telephone conduit per outlet unless otherwise indicated are 21 mm, for 2 or 3 outlets use 25 mm. Conduit shall be installed in accordance with relative Division 26 sections.
 - .2 T.V. conduits to be minimum 21 mm. Loop conduits through outlets where applicable.
 - .3 Conduits to be sized as required.
- 2.5 PULL BOXES
- .1 Where required or indicated, provide communication pull boxes complete with covers. Locate pull boxes such that cables can be installed without being pulled through more than two 90 degree bends, or their equivalent, i.e.: multiple bends totalling more than 180 degrees.
- 2.6 EQUIPMENT RACK
- .1 Rack, to accommodate system components, floor mounted, three section enclosed type, steel construction with internal mounting rails, wire and cable entrances with smooth edges protected by rubber edging, four adjustable rack levelling feet.
 - .2 Metal outlet raceway with colour coded outlets wired to 120V, 60Hz supply controlled by key type locking switch.
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- 2.5 PULL BOXES .3 Louvres and ventilation apertures in sides,
(Cont'd) top,back of rack for convection ventilation.
PART 3 - EXECUTION
- 3.1 INSTALLATION .1 Install empty raceway system, including a
complete distribution system, pull wire,
terminal cabinets, outlet boxes, floor boxes,
pull boxes, cover plates, conduit, sleeves and
caps, cable trays, service poles, miscellaneous
and positioning material to constitute complete
system.
- .2 Conduit shall be fished, blocks cleared and
outlet and pullboxes cleaned out at completion
of installation. Conduit shall be left free of
water or excess moisture. A nylon pull wire
shall be installed continuously for outlet to
outlet, through all conduits and shall be
fastened at each box.
- .3 Conduit bends shall have a bending radius of
not less than ten times conduit diameter.
- .4 For telecom raceways provide a pull box where:
(1) the length is over 30 m and (2) where there
are more than two 90 degree bends.