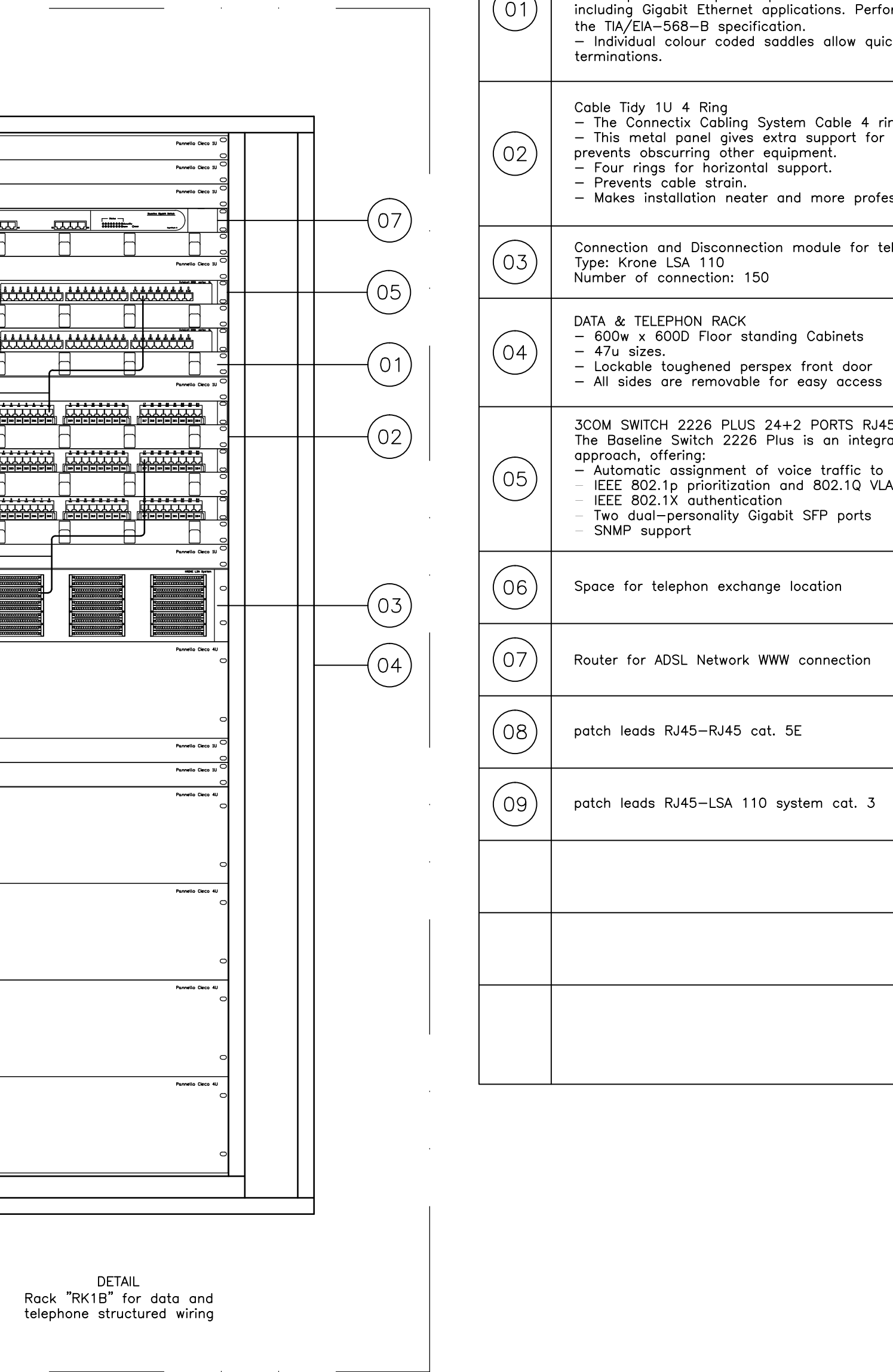
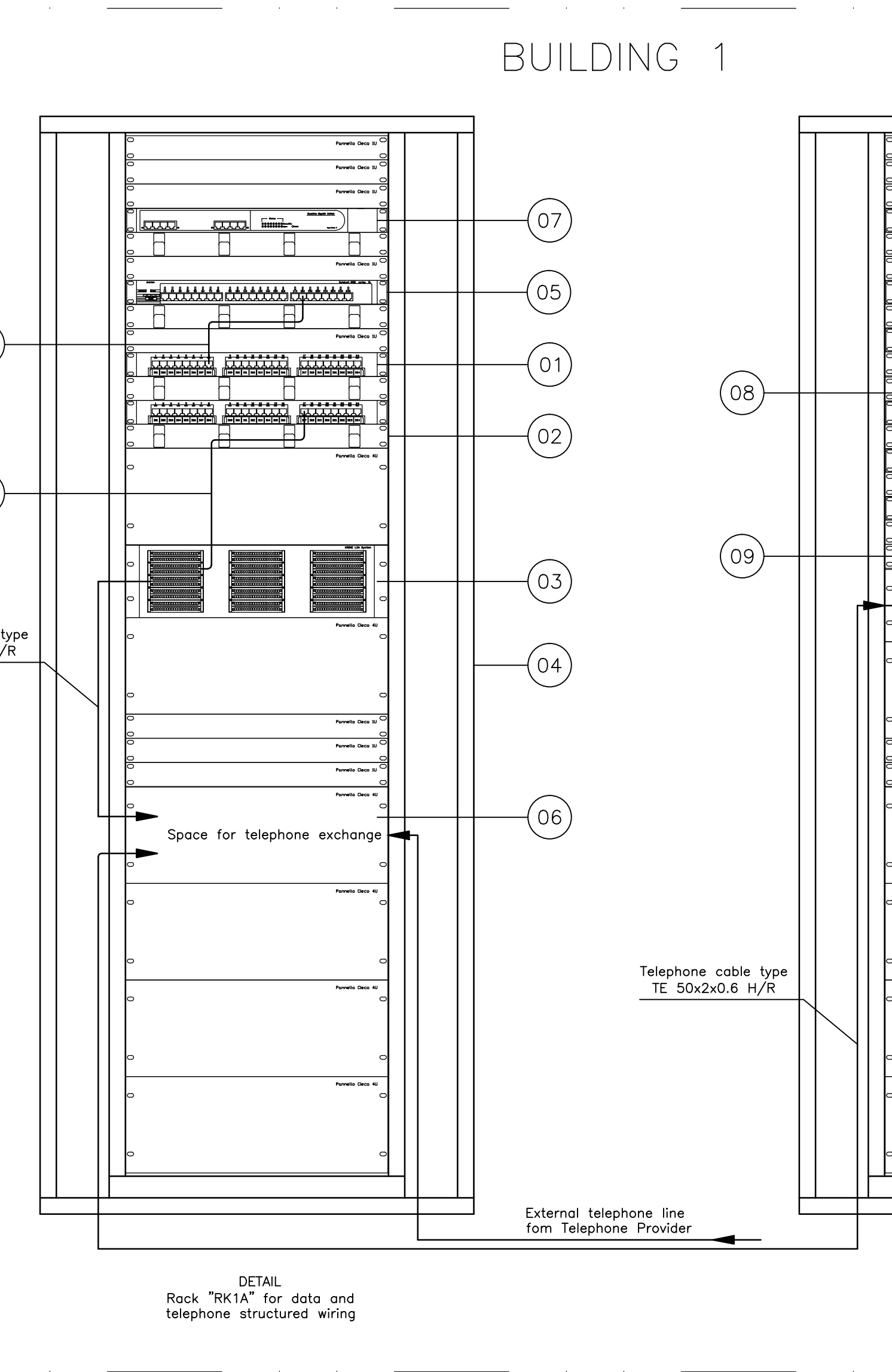
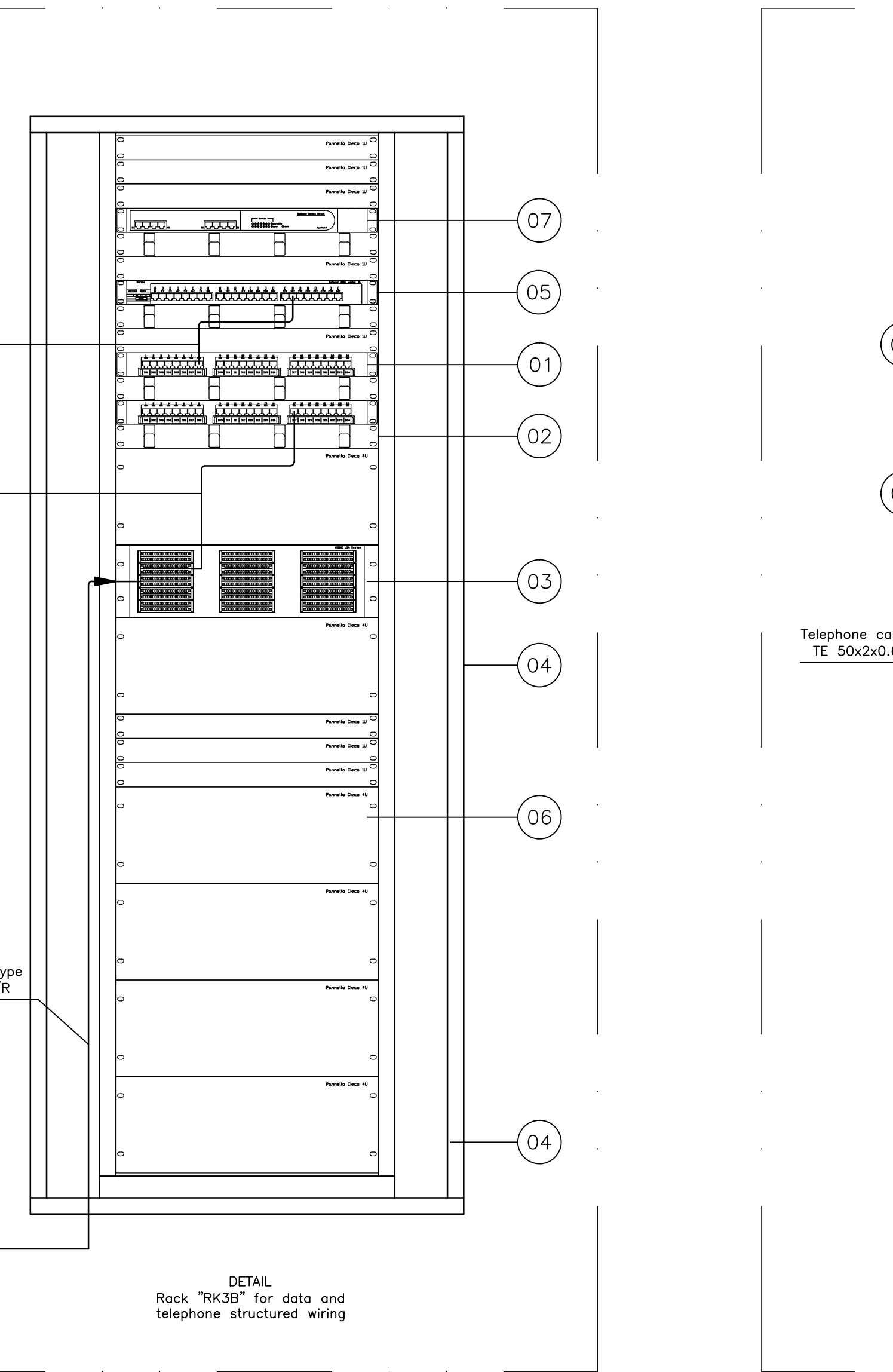
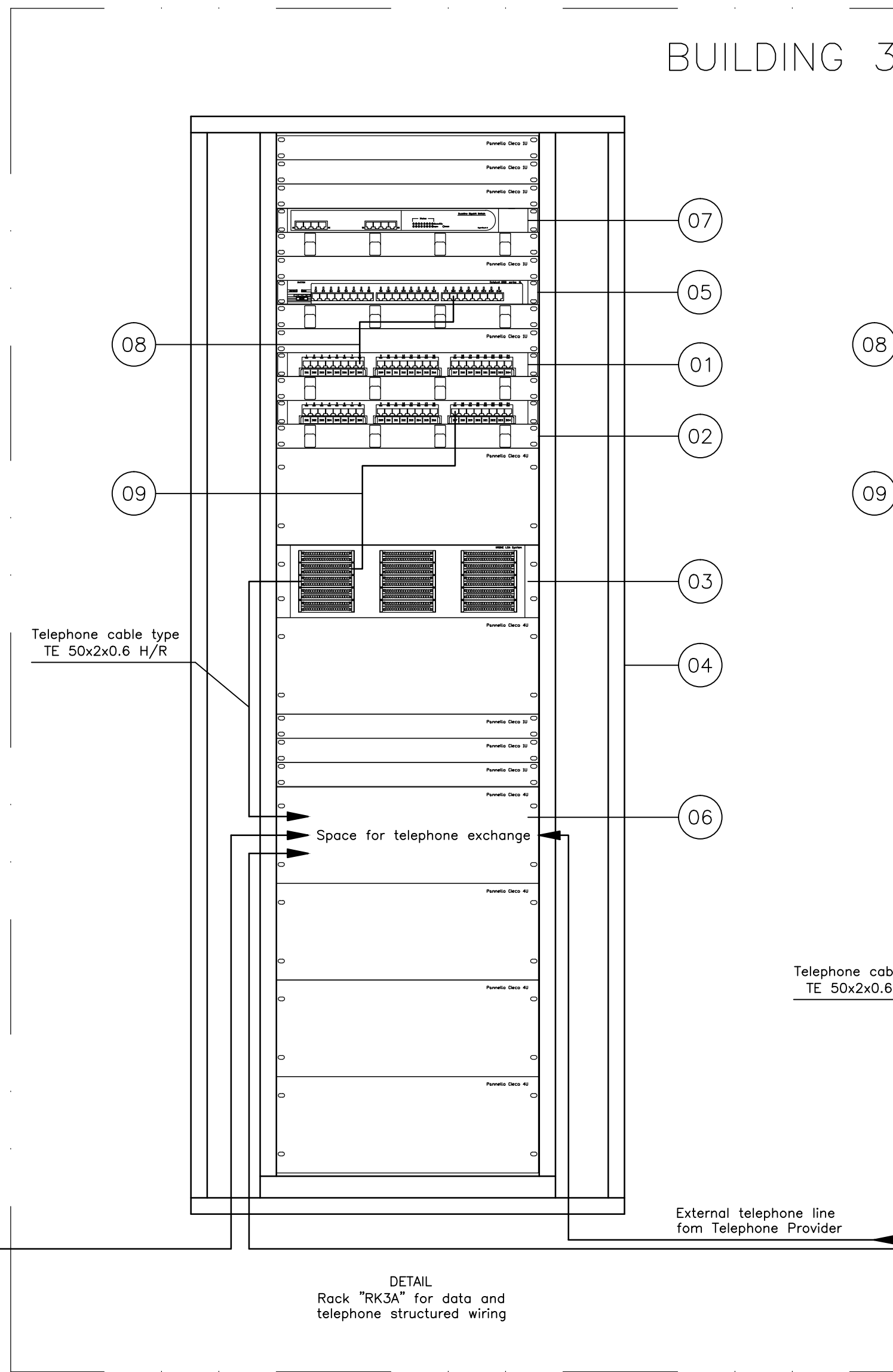
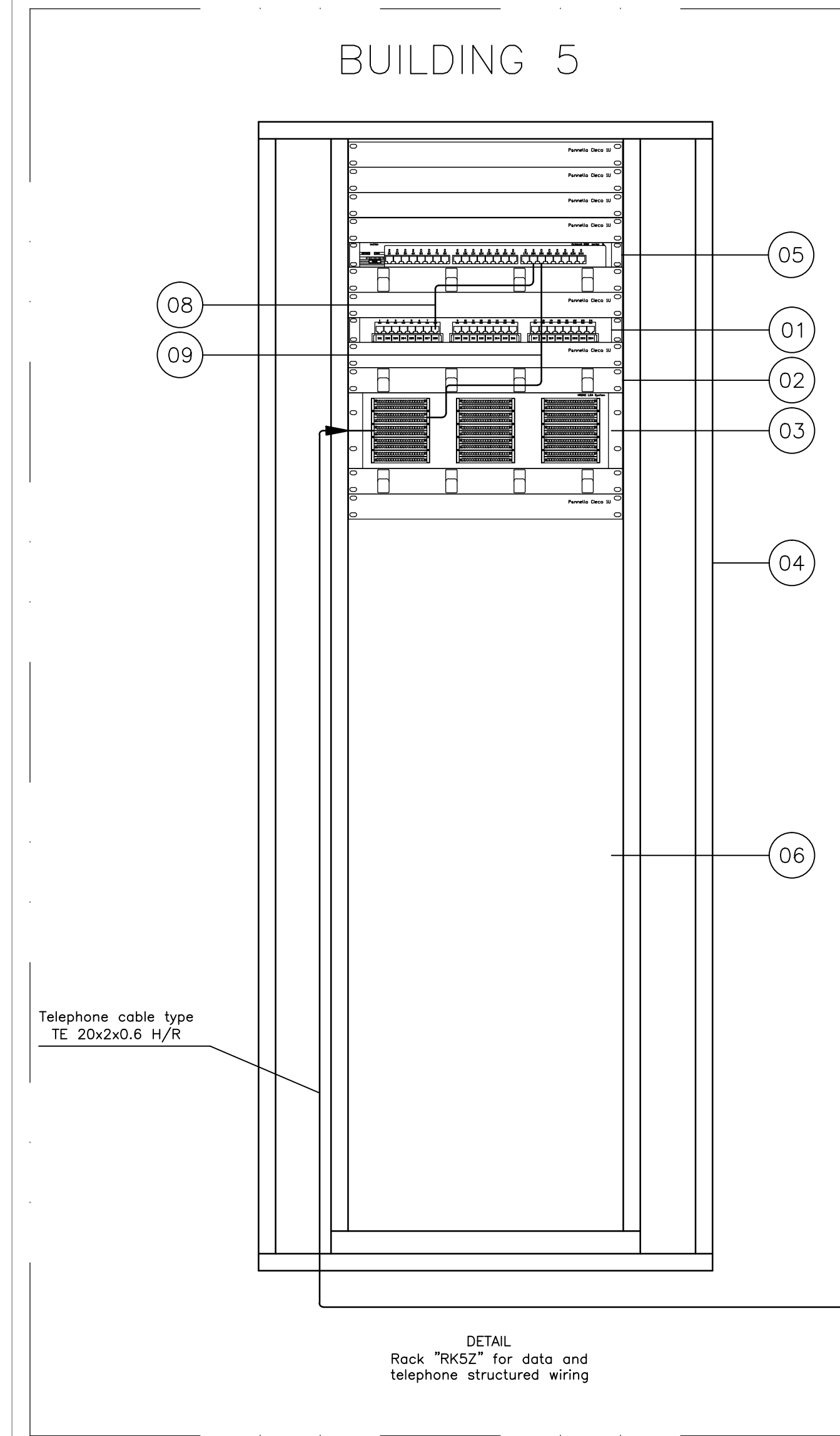


EQUIPMENTS DETAILS

DETAIL
Rack for data & telephon structured wiring and structured wirign connection



RACK DATA & TELEPHON EQUIPMENT	
01	PATCH PANEL 24 PORTS RJ45 CAT. 5E - Connects Cabling System Enhanced Category 5 UTP Patch Panels provide exceptional performance for high speed LAN's including Gigabit Ethernet applications. Performing in excess of the TIA/EIA-568-B specification. Individual colour coded sockets allow quick and accurate terminations.
02	Cable Tray 1U 4 Ring - The Connecta Cabling System Cable 4 ring Cable Tray panel. This metal panel gives extra support for patch leads and prevents obscuring other equipment. - Four rings for horizontal support. - Prevents cable strain. - Makes installation neater and more professional.
03	Connection and Disconnection module for telephone routing Type: Krone LSA 110 Number of connection: 150
04	DATA & TELEPHON RACK - 600W x 600D Floor standing Cabinets - 47x slots. - Lockable toughened perspex front door - All sides are removable for easy access
05	3COM SWITCH 2226 PLUS 24+2 PORTS RJ45 The Baseline Switch 2226 Plus is an integral component of this approach, offering: - Automatic assignment of voice traffic to separate VLANs - IEEE 802.1p prioritization and 802.1Q VLANs - IEEE 802.1X authentication - Two dual-personality Gigabit SFP ports - SNMP support
06	Space for telephone exchange location
07	Router for ADSL Network WWW connection
08	patch leads RJ45-RJ45 cat. 5E
09	patch leads RJ45-LSA 110 system cat. 3

Manufacturer: 3COM
Model: Baseline Switch 2226 Plus

CONNECTORS
28 total available ports, comprised of:
- 24 auto-negotiating 10BASE-T/100BASE-TX configured as auto MDI/MDIX
- 2 dual-personality Gigabit port pairs, configurable as 10BASE-T/100BASE-TX/1000BASE-1 or SFP

PERFORMANCE
- 8.8 Gbps switching capacity, max.
- 6.8 Mbps forwarding rate, max.
- Wrespeed forwarding across ports
- Store-and-forward switching

LAYER 2 SWITCHING
- 8,192 MAC addresses in address table 256 port-based VLANs (IEEE 802.1Q)
- Manual link aggregation: 4/10/100 trunks with 8 ports per trunk, max.
- IEEE 802.3x full-duplex flow control and duplex
- IEEE 802.1D Spanning Tree Protocol (STP)
- IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)
- Internet Group Management Protocol (IGMP) snooping on Layer 2 interfaces
- Multicast filtering

CONVERGENCE
- 4 hardware queues per port, with IEEE 802.1p Class of service/Quality of Service (CoS/QoS) on egress
- Weighted Round Robin queuing
- Traffic prioritization at Layer 2 using 802.1p CoS
- Auto VLAN assignment for voice traffic determined by vendor CLI

SECURITY
- IEEE 802.1X Network login
- EAP-MD5 encryption

MANAGEMENT
Web-based configuration for:
- Port speed and duplex configuration
- Spanning tree
- VLANs
- IGMP snooping
- Link aggregation
- IGMP query
- Traffic monitoring
- Broadcast storm control
- SNMP v1 and v2
Compatible with SNMP management tools like 3Com Network Supervisor and 3Com Network Director
CLI management supports initial setup of switch

LED INDICATORS
Module active, power, network traffic/duplex mode, link status/speed

AT-A-GLANCE TRAFFIC MONITORING
Ports: active, enabled, disabled
Modules: present, active

POWER SUPPLY
Input voltage: 100-240 VAC, 50/60 Hz
Current rating: 1A, max.
Power consumption: 15W, max.
Power dissipation: 46 BTU/hr, max.
Power inlet: IEC 320

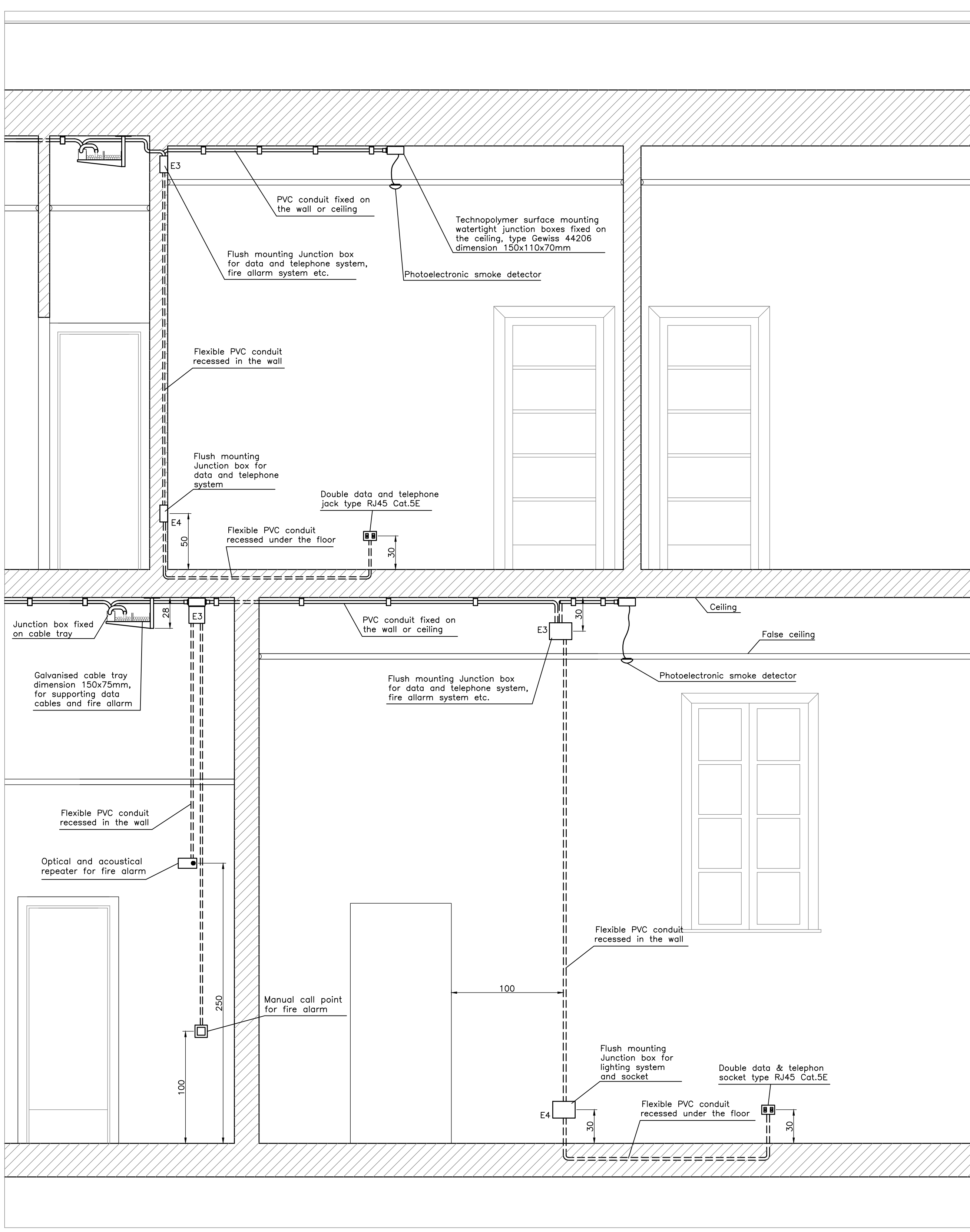
DIMENSIONS
Height: 4.4 cm (1.7 in or 1 RU)
Width: 44.0 cm (17.3 in)
Depth: 17.5 cm (6.9 in)
Weight: 1.7 kg (3.7 lb)

ENVIRONMENTAL REQUIREMENTS
Operating temperature: 0° to 40°C (32° to 104°F)
Operating humidity: 10 to 95% (non-condensing)
Standard: EN 60068 (EC 68)

REGULATORY AND AGENCY APPROVALS
Safety: UL 60950-1, EN 60950-1, CSA 22.2 60950-1, IEC 60950-1
Emissions: EN 55022 Class A, FCC Part 15 Subpart B Class A, IEC61000 Class A, VCCI Class A, AS/NZS 3548 Class A
Environmental: EN 60528 (EC 68)
Immunity: EN 55024

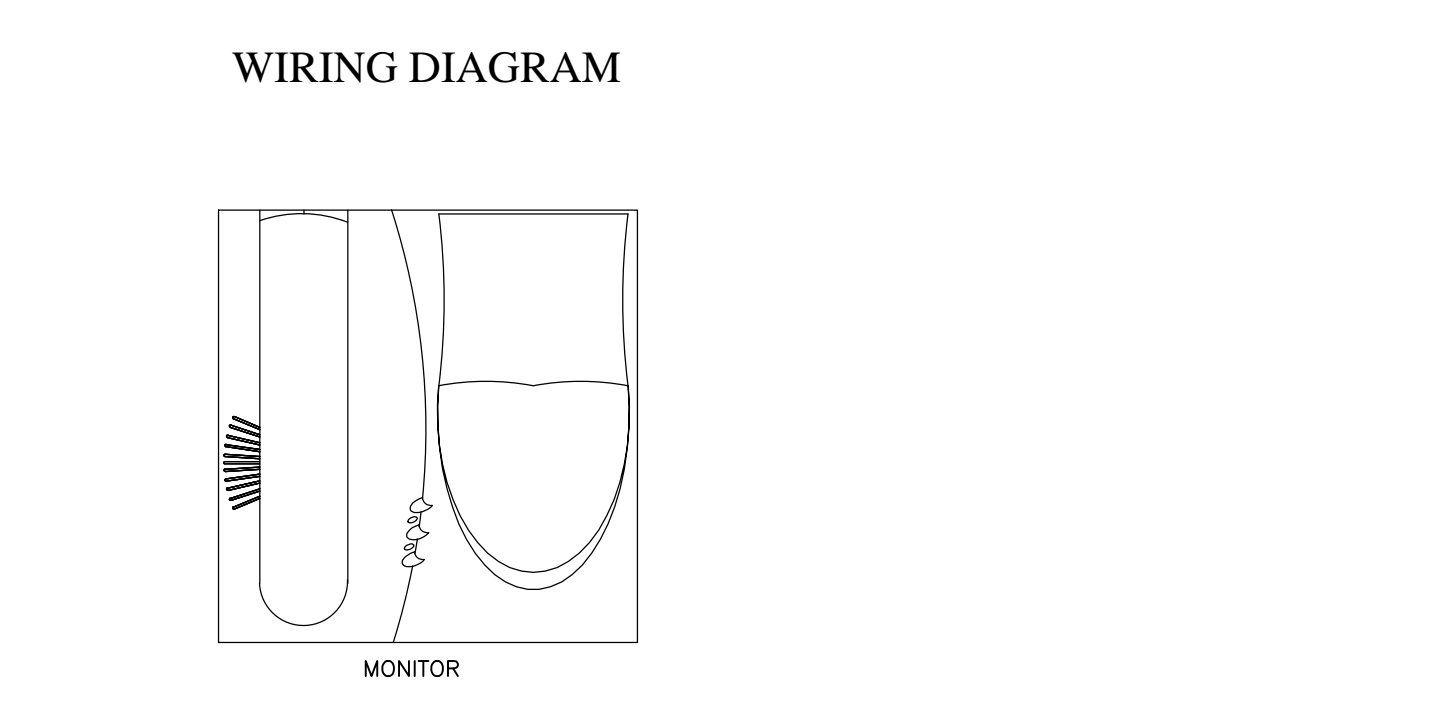
IEEE STANDARDS SUPPORTED
IEEE 802.1D Spanning Tree
IEEE 802.1D Priority Tag
IEEE 802.1Q VLANs
IEEE 802.1X Port Security
IEEE 802.1w Rapid Spanning Tree
IEEE 802.3 Ethernet
IEEE 802.3ab Gigabit Ethernet
IEEE 802.3x Fast Ethernet
IEEE 802.3x Flow Control
IEEE 802.3x Gigabit Ethernet
ISO 8802-3

PACKAGE CONTENTS
Switch unit, power cord, self-adhesive rubber pads, rack-mount kit, user guide, installation CD, warranty flyer



DETAIL
typical wiring phonia, data and fire alarm
Scale 1:25

VIDEO & AUDIO DOOR ENTRY SYSTEM



TECNICAL SPECIFICATION

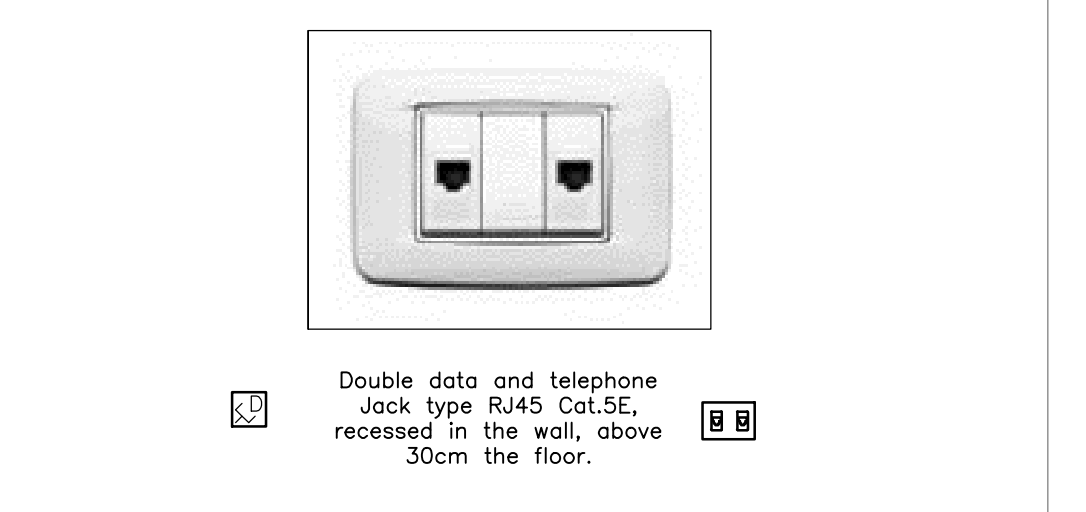


Manufacturer: VIMAR
Model: (see the down description)

Video door entry system types 6303
Available colours: white (standard colour).
Material: ABS
Installation: supplied with back-plate for wall-mounting.
Equipment supplied: back-plate (type R631) and 4 wall fixing screws
Video input signal: Vpp on 75ohm
Supply voltage: from 15V D.C. to 24V D.C.
Operating temperature: from 0 to 40°C

Description: entrance panel with B/W camera, speech unit, "Engaged, Wait Please" sign and call push-buttons
Colours: gold
Plate material: satin-finish brass with PVD protection treatment
Encoding system: 4-digit
Supply voltage: 13.5V D.C.
Lighting: bulb-holder and 24V 3W bulb (the number of bulbs depends on the model of entrance panel)
Camera: Sensor 1/4" B/W CCD
Lens: 3 mm
Video output: 1 Vpp on 75 Ohm coaxial cable
Subject lighting: with infrared LED's over a maximum distance of 50 cm
Panel thickness: 4 mm
Depth of panel back box: 70 mm
Equipment supplied: flush-mounted back box in galvanised steel
Programmable parameters: call time
conversation time
lock opening time
Functions: auxiliary functions F1 and F2 with timer control Video Moving

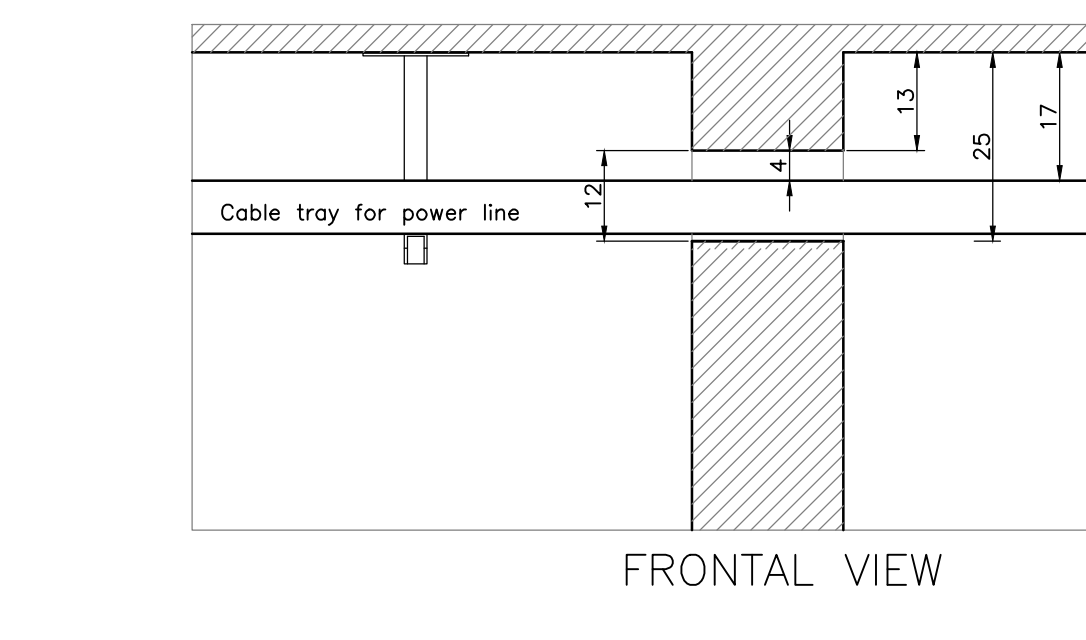
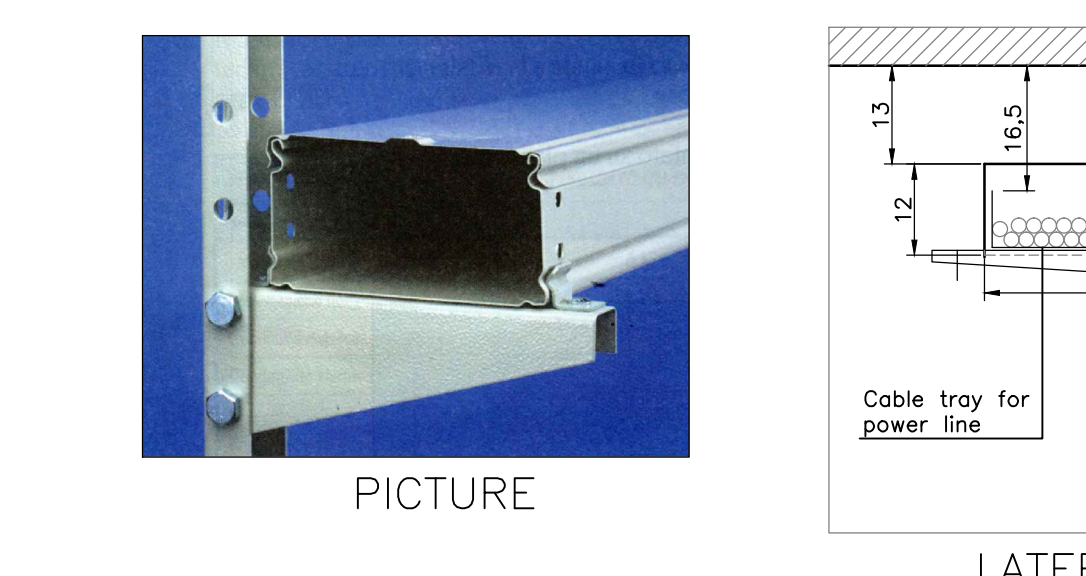
A- Entrance panel series 8000
B- Additional push-button for lock
C- Camera with speech unit type 559A - 559B
L1- Bulb for panel lighting (3x24V 3W MAX)
10x24V 3W con/with type M832
16x24V 3W con/with type B32/030



Manufacturer: VIMAR
Model: EIKON

Group data and telephone jacks type RJ45 Cat.5E composed by following equipments:
* 3-module flush mounting box, (Glow Wire 650 °C), for masonry walls, light blue
* 3-module mounting frame, with screws, for 3-module mounting boxes
* two RJ45 jack with Panduit (MINI-COM) connector, Cat. 5e, unshielded, 1568A/B universal wiring, 8 contacts, 110-type insulation-piercing terminals, white
* round plate 3 module Bright antique white

DETAIL
hole for passage cable tray
Scale 1:10

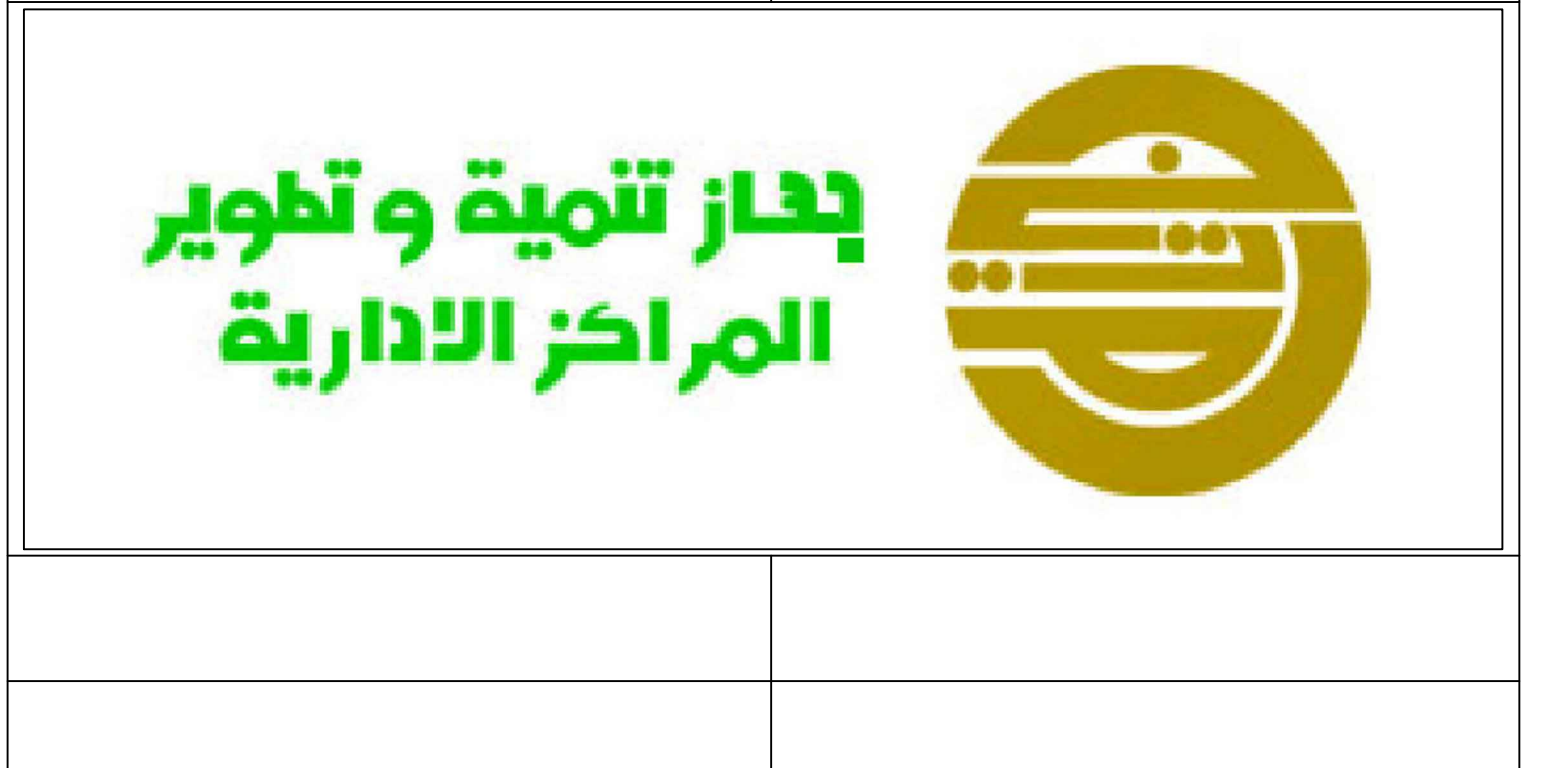


CATHEDRAL OF BENGHAZI BENGHAZI, LIBIA



Architectural, electric and mechanical systems project

Architect in charge and team coordinator: Arch. Carlo Formichi



DRAWING: **ES3.06**
SCALE: /
DATE: May 2009
UPDATING:

WORKING DESIGN
ELECTRICAL PATTERNS
CATHEDRAL, BUILDING 1, 3
DATA AND TELEPHONE SYSTEM AND VIDEO ENTRYPHONE DETAILS