LABELING SCHEME

WORK AREA FACEPLATE LABELING
THE TYPE (VOICE, DATA) AND THE COLOR OF THE ICONS FOR EACH OUTLET ON THE WORK AREA FACEPLATE MUST DIRECTLY CORRESPOND WITH THE ICON ON THE PATCH PANELS. EVERY UTP CABLE PRESENT AT EACH FACEPLATE MUST HAVE ITS OWN UNIQUE IDENTIFIER (LABEL). LABELS SHALL BE BLACK LETTERING ON WHITE BACKGROUND. HAND WRITTEN LABELS ARE NOT ACCEPTABLE.

EACH FACEPLATE LOCATION SHALL BE LABELED WITH THE FOLLOWING INFORMATION FOR EACH UTP CABLE:

S = IDENTIFIES THE TELECOMMUNICATIONS SPACE (ALPHA CHARACTER)
Y* = IDENTIFIES THE RACK NUMBER WITHIN THE TELECOMMUNICATIONS SPACE (NUMERIC CHARACTER)
A = IDENTIFIES THE PATCH PANEL LOCATION STARTING FROM THE TOP OF THE RACK/CABINET (ALPHA CHARACTER)
P = IDENTIFIES THE PORT ON THE PATCH PANEL (NUMERIC CHARACTER)

* USED WHEN MORE THAN ONE RACK IS USED FOR THE HORIZONTAL CABLE TERMINATIONS IN A TELECOMMUNICATIONS SPACE

PATCH PANEL LABELING
THE TYPE (VOICE, DATA) AND THE COLOR OF THE ICONS FOR EACH OUTLET ON THE PATCH PANELS MUST DIRECTLY CORRESPOND WITH THE ICON ON THE WORK AREA FACEPLATE. EACH PATCH PANEL SHALL BE LABELED IN THREE LOCATIONS - LEFT SIDE MIDDLE, MIDDLE AND RIGHT SIDE MIDDLE, STARTING WITH THE TOP PATCH PANEL. LABELS SHALL BE BLACK LETTERING ON WHITE BACKGROUND. HAND WRITTEN LABELS ARE NOT ACCEPTABLE.

EACH PATCH PANEL SHALL BE LABELED WITH THE FOLLOWING INFORMATION:

A = IDENTIFIES THE PATCH PANEL LOCATION STARTING FROM THE TOP OF THE RACK/CABINET

NOTE: NO NEED TO LABEL PORTS ON THE PATCH PANEL

HORIZONTAL CABLE LABELING
ALL HORIZONTAL CABLES MUST BE LABELED WITH ITS OWN UNIQUE IDENTIFIER. LABELS SHALL BE BLACK LETTERING ON WHITE BACKGROUND CONTAINING THE CABLE IDENTIFIER. THE LABELS SHALL BE PLACED ON THE CABLE 4-INCHES FROM THE POINT OF TERMINATION AND IN THE SAME DIRECTION FOR ALL CABLES. HAND WRITTEN LABELS ARE NOT ACCEPTABLE.

EACH HORIZONTAL CABLE LABEL SHALL FOLLOW THE SAME LABELING SCHEME AS THE WORK AREA FACEPLATE LABELING SCHEME.

RACK LABELING
ALL RACKS SHALL BE LABELED AT THE TOP AND BOTTOM OF THE RACK. LABELS SHALL BE BLACK LETTERING ON YELLOW BACKGROUND 24 POINT FONT.

EACH RACK SHALL BE LABELED WITH THE FOLLOWING INFORMATION;

ER OR TR
B = IDENTIFIES AS ER OR TR
S = IDENTIFIES THE TELECOMMUNICATIONS SPACE
R = IDENTIFIES THE RACK IN THE TELECOMMUNICATIONS SPACE

EXAMPLE: ER-E-01
INDICATES ER, TELECOMMUNICATIONS SPACE E, RACK 01

FIBER OPTIC BACKBONE CABLE LABELING
ALL FIBER OPTIC BACKBONE CABLES MUST BE LABELED WITH ITS OWN UNIQUE IDENTIFIER. LABELS SHALL BE BLACK LETTERING ON WHITE BACKGROUND CONTAINING THE CABLE IDENTIFIER. THE LABELS SHALL BE PLACED ON THE CABLE JACKET 4-INCHES FROM POINT OF JACKET REMOVAL AND IN THE SAME DIRECTION FOR ALL CABLES. HAND WRITTEN LABELS ARE NOT ACCEPTABLE.

EACH FIBER OPTIC BACKBONE CABLE SHALL BE LABELED WITH THE FOLLOWING INFORMATION:

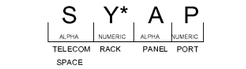
S1 = IDENTIFIES THE TELECOMMUNICATIONS SPACE (TS) CONTAINING THE TERMINATION
S2 = IDENTIFIES THE REMOTE TELECOMMUNICATIONS SPACE CONTAINING THE OTHER END OF THE TERMINATIONS
N = IDENTIFIES THE TOTAL STRAND COUNT OF THE FIBER OPTIC BACKBONE CABLE
MM = IDENTIFIES THE FIBER OPTIC BACKBONE CABLE AS MULTIMODE
SM = IDENTIFIES THE FIBER OPTIC BACLBON CABLE AS SINGLEMODE
R = IDENTIFIES FIBER OPTIC BACKBONE REDUNDANCY, PRIMARY OR SECONDARY ROUTE

FIBER BACKBONE ENCLOSURE LABELING
EACH FIBER ENCLOSURE LABEL CARD SHALL BE LABELED WITH THE REMOTE TELECOMMUNICATIONS SPACE AND ROUTE. LABELS SHALL BE BLACK LETTERING ON WHITE BACKGROUND. THE LABELS SHALL BE PLACED ON THE CORRESPONDING LABEL CARD SLOT AND IN THE SAME DIRECTION FOR ALL LABELS. HAND WRITTEN LABELS ARE NOT ACCEPTABLE.

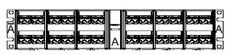
EACH FIBER ENCLOSURE SLOT SHALL BE LABELED WITH THE FOLLOWING INFORMATION:

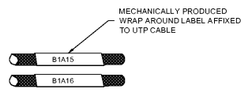
S2 = IDENTIFIES THE REMOTE TELECOMMUNICATIONS SPACE CONTAINING THE OTHER END OF THE TERMINATIONS
R = INDETIFIES FIBER OPTIC BACKBONE REDUNDANCY, PRIMARY OR SECONDARY ROUTE

EXAMPLE: TR-AF PRIMARY
INDICATES REMOTE TELECOMMUNICATIONS SPACE TR-AF, PRIMARY PATHWAY



EXAMPLE:
B1A05
TELECOMMUNICATIONS SPACE B, RACK 01, PATCH PANEL A, PORT 05

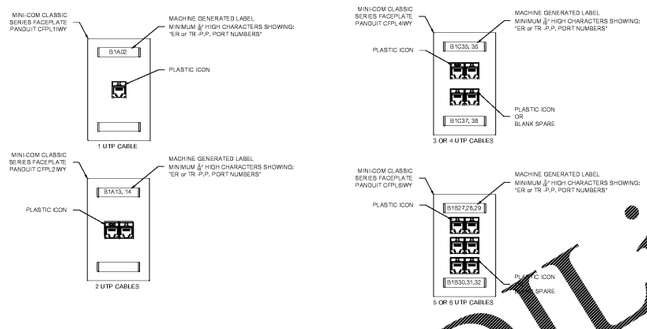




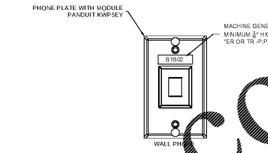
EXAMPLE:
ERE-01
INDICATES ER, TELECOMMUNICATIONS SPACE E, RACK 01

EXAMPLE:
ERE/TRB-12MMP
INDICATES TELECOMMUNICATIONS SPACE ERE TO TELECOMMUNICATIONS SPACE TRB, 12-STRAND, MULTIMODE, SECONDARY PATHWAY.

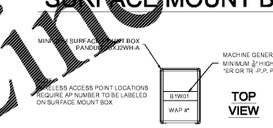
FLUSH MOUNTED FACEPLATES



WALL MOUNT PHONE FACEPLATE



SURFACE MOUNT BOX



COLOR CODE GUIDELINES

THE FOLLOWING COLORS SHALL BE USED TO PROVIDE COMMONALITY WITHIN THE STRUCTURED CABLING SYSTEM FOR CATEGORY 6 OUTLETS, ICONS AND PATCH CORDS BASED ON TYPE OF APPLICATIONS BEING PROVIDED:

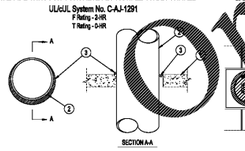
- BLUE - REGISTERS AND SCO
- YELLOW - ISP (IF CONNECTED THROUGH PATCH PANEL)
- ORANGE - SECURITY DEVICES, POS CO-CONTROLLER, & DEMARCATION POINT ANALOG EXTENSIONS
- RED - CATALINA
- VIOLET - ENERGY MANAGEMENT & ISP PERIPHERALS (PRINTERS, PC'S, ASMA, ETC.)
- OFF WHITE - TELEPHONE
- GREEN - PHARMACY WORKSTATION / PRINTER, & DEMARCATION POINT T1 CIRCUIT EXTENSIONS
- BLACK - POS MASTER CONTROLLER
- GRAY - TIME CLOCKS, SCALES, & RISER/TIE CABLES TO TR'S
- WHITE - WIRELESS ACCESS POINTS

1 LABELING DETAIL
SCALE: NTS

Order Plans @ WWW.LDILine.com

METAL PIPE THROUGH CONCRETE FLOOR/WALL OR BLOCKWALL

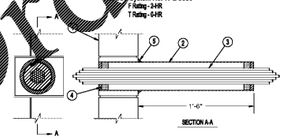
UL/cUL System No. C-AJ-1291
F Rating - 2-HR
T Rating - 0-HR



1. Concrete Assembly - Min 2-1/2 in. thick reinforced lightweight or normal-weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Block or Brick Assembly that has a 1 hr or greater fire rating.
2. Pipe - Metallic pipe or conduit to be installed either concentrically or eccentrically within the firestop system. The annular space between pipe or conduit and periphery of opening shall be min 0 in. to max 7/8 in. Pipe or conduit to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes or conduits may be used:
   A. Steel Pipe - Nom 30 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Conduit - Nom 30 in. diam (or smaller) steel conduit or ductile iron pipe.
   C. Conduit - Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.
   D. Conduit - Nom 4 in. diam (or smaller) steel electrical metallic tubing (EMT).
3. Fill Material - Min 1/2 in. thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall. At the point contact between pipe and concrete, a min 1/4 in. diam bead of fill material shall be applied at the concrete/pipe interface on the top surface of floor and on both surfaces of wall.
   FS-ONE Sealant
*Bearing the UL Classification Marking

CABLE BUNDLE THROUGH A SLEEVE IN 1-HR. OR 2-HR. CONCRETE WALL OR BLOCK WALL ASSEMBLY

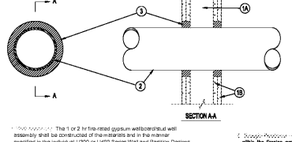
UL/cUL System No. W-L-3060
T Rating - 0-HR



1. Concrete Assembly - (2-HR. Fire-Rating)
   A. Any lightweight or normal-weight concrete wall (Min. 5" thick)
   B. Any UL/cUL classified concrete block wall.
2. Sleeve - Minimum 4" nominal diameter steel pipe sleeve (schedule 40 or heavier).
3. Cable Bundle - Aggregate cross-sectional area of cables in sleeve to be max 40 percent of the aggregate cross-sectional area of the sleeve. Cables to be rigidly supported on both sides of wall assembly. The following types and sizes of cables may be used:
   A. Maximum 7/0 NO. 12 AWG cable.
   B. Maximum 25 pair NO. 24 AWG telephone cable.
   C. RG 59 coaxial cable.
   D. 3/C NO. 8 AWG metal clad cable.
   E. Maximum 5/8" diameter fiber-optic cable.
4. Caulk - Minimum 5/8" depth Hilti FS-ONE intumescent firestop sealant.
5. Backer Rod - Backer rod material.

Notes:
1. Minimum diameter of opening = 4"
2. Cables to fill a maximum 40% of cross-sectional area of opening.
3. Annular space = minimum 1/4", maximum 3/4".
4. Sleeve sides may be flush with wall surface or extended up to 18" beyond wall surface. When sleeve is extended beyond one or both sides of wall, apply 1/2" bead Hilti FS-ONE intumescent firestop sealant to wall/sleeve interface.

METAL PIPE THROUGH 1-HR. OR 2-HR. GYPSUM WALL ASSEMBLY



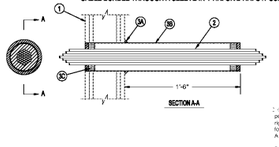
1. Wall Assembly - The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC. When steel studs are used and the cavity is partially filled with batts, the depth of the batts shall be equal to the depth of the cavity. When steel studs are used and the cavity is not filled with batts, the depth of the batts shall be equal to the depth of the cavity minus 1 in.
   B. Gypsum Board - Nom 5/8 in. thick, 4 ft wide with square or tapered edges. Gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Designs in the UL Fire Resistance Directory. Max diam of opening is 12-1/4 in. for steel stud walls. Max diam of opening is 14-1/2 in. for wood stud walls.
2. Sleeve - One metallic pipe, conduit or tubing to be centered within the firestop system. An annular space of not less than 0 in. to max 2-1/4 in. is required within firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. Steel Pipe - Nom 30 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Conduit - Nom 30 in. diam (or smaller) cast or ductile iron pipe.
   C. Steel Conduit - Nom 4 in. diam (or smaller) steel electrical metallic tubing or 6 in. diam steel conduit.
   D. Conduit - Nom 6 in. diam (or smaller) type L (or heavier) copper tubing.
   E. Copper Pipe - Nom 6 in. diam (or smaller) regular (or heavier) copper pipe.
   F. Steel Pipe - Nom 6 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
3. Fill Material - 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Designs in the UL Fire Resistance Directory. Max diam of opening is 12-1/4 in. for steel stud walls. Max diam of opening is 14-1/2 in. for wood stud walls.
   In 1 hr fire rated assemblies, min 5/8 in. thickness of fill material applied within the annulus, flush with both surfaces of the wall. In 2 hr fire rated assemblies, min 1-1/4 in. thickness of fill material applied within the annulus, flush with both surfaces of wall.
   FS-ONE Sealant.
*Bearing the UL Classification Marking

UL/cUL System No. W-L-1054

F Rating - 1 and 2 Hr
T Rating - 0 Hr
L Rating At Ambient - Less Than 1 CFM/Sq Ft
L Rating At 400 F - 4 CFM/Sq Ft

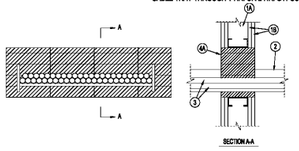
CABLE BUNDLE THROUGH A SLEEVE IN 1-HR. OR 2-HR. GYPSUM WALL ASSEMBLY

UL/cUL System No. W-L-3112
F Ratings - 1 & 2 Hr (See Item 1)
T Rating - 0 Hr



1. Cable - Aggregate cross-sectional area of cables in steel sleeve to be 30 percent of the aggregate cross-sectional area of the sleeve. Cables to be rigidly supported on both sides of wall assembly. Any combination of the following types and sizes of copper conductor cable may be used:
   A. Max 300 kcmil single conductor Type MTNR, THHN, THWN or AWM power cables, cross-linked polyethylene (XLPE) insulation.
   B. Max 4 pair No. 24 AWG telephone cable intended for plenum applications.
   C. Max 3/C No. 12 AWG with polyvinyl chloride (PVC) insulation and jacket.
2. Firestop System - The firestop system shall consist of the following:
   A. Steel Sleeve - Nom 4 in. diam (or smaller) steel electrical metallic tubing (EMT) or Schedule 5 steel pipe cast into wall assembly with joint compound. Sleeve may extend up to 18 in. beyond the wall surfaces.
   B. Fill, Void or Cavity Material - Min 1 in. thickness of min 42 pcf mineral wool batt insulation firmly packed into each end of sleeve as a permanent form. Packing material to be recessed from each end of sleeve as required to accommodate the required thickness of fill material.
   C. Caulk - Min 1 in. thickness of fill material applied within the sleeve, flush with both ends.
   D. Optional Item - CP618 Firestop Putty Stick
*Bearing the UL Classification Marking

CABLE TRAY THROUGH 1-HR. OR 2-HR. GYPSUM WALL ASSEMBLY



UL/cUL System No. W-L-4011
F Rating - 1 and 2 Hr (See Item 1)
T Rating - 0 Hr
L Rating At Ambient - 5 CFM/Sq Ft
L Rating At 400 F - 7 CFM/Sq Ft

1. Wall Assembly - The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC. Additional framing member shall be installed in stud cavity containing through-penetrating item to form a rectangular box around penetrant.
   B. Gypsum Board - 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Designs in the UL Fire Resistance Directory. Max size of opening 9 in. by 30 in.
   The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed. Min. finished wall thickness is 5 in.
2. Cable Tray - Max 24 in. wide by max 4 in. deep open-ladder cable tray with channel-shaped side rails formed of 0.13 in. thick aluminum or 0.060 in. thick steel and with 1-1/2 in. wide by 1 in. channel-shape rungs spaced 9 in. OC. The annular space between the cable tray and the periphery of the opening shall be min 1 in. to max 4 in. Cable tray to be rigidly supported on both sides of floor or wall assembly.
3. Cables - Aggregate cross-sectional area of cables in cable tray to be max 40 percent of the cross-sectional area of the cable tray. Any combination of the following types and sizes of copper conductor cable may be used:
   A. 1/C, 500 kcmil with cross-linked polyethylene and PVC jacket.
   B. 3/0 per - No. 24 AWG cable with PVC insulation and jacket.
   C. Twenty-four fiberoptic cable with PVC outunit and jacket.
   D. Max three 1/C, No. 12 AWG wire, insulated with polyvinyl chloride, in a max 3/4 in.
4. Firestop System - The firestop system shall consist of the following:
   A. Wall Opening - For walls 5 in. thick or less. Fire blocks centered within depth of opening with the long dimension placed horizontally. For walls greater than 5 in. thick, fire blocks installed with long dimension pressed through the opening. In both cases, blocks to completely fill the annular volume of the opening in the wall assembly.
   B. Fill Material - 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Designs in the UL Fire Resistance Directory. Max size of opening 9 in. by 30 in.
   C. Fill, Void or Cavity Material - FS-ONE Sealant
   D. Optional Item - FS-ONE Sealant
*Bearing the UL Listing Mark
**Bearing the UL Classification Marking

2 FIRE STOP DETAIL
SCALE: NTS

KROGER
KROGER
STORE #473
2013 UNIVERSITY AVENUE
OXFORD, MISSISSIPPI 38655
A DEVELOPMENT OF:
THE KROGER COMPANY

naos
Naos Design Group Of Mississippi, PLLC.
MARC BREETZ, ARCHITECT
645 Lakeland East Drive
Suite 101
Flowood, Mississippi 39232
(p) 303.759.5777
(f) 720.360.4281
ARCHITECT OF RECORD

CDS
COMMERCIAL DESIGN SYSTEMS, INC.
13825 SW GALBREATH DRIVE
SHERWOOD, OREGON 97140
503.885.7000 (F)503.625.8002
INTERIOR DECOR

Pickering
Pickering Firm, Inc.
Architecture - Engineering
Planning - Surveying
6775 Lenox Center Court, Suite 300
Memphis, TN 38115
901.726.0810
ENGINEER OF RECORD:
STRUCTURAL
MECHANICAL
ELECTRICAL
CIVIL ENGINEER

V-SOFT INFRASTRUCTURE
1560 CHESTER ROAD
CINCINNATI, OH 45246
T: 513-698-3599
LOW VOLTAGE

telgian
TELGIAN CORPORATION
10230 SOUTH 50TH PLACE
SUITE 100
PHOENIX, AZ 85044
T: (877) 835-4426
HTTP://WWW.TELGIAN.COM
FIRE PROTECTION

ISSUE LOG

NO.	REV.	DESCRIPTION	DATE
1	-	PERMIT SET	12/06/18
2	-	BID SET	03/21/19

JOB:	SCALE:
2018041	NO SCALE

SHEET NO.

LABELING AND FIRESTOP DETAIL
T5.1

COPYRIGHT © 2019 NAOS DESIGN GROUP OF MISSISSIPPI, PLLC. THESE DRAWINGS, OR PARTS THEREOF, MAY NOT BE REPRODUCED IN ANY FORM, BY ANY METHOD, FOR ANY PURPOSE, WITHOUT PRIOR WRITTEN CONSENT FROM NAOS.