



# Voice / Data Identification.

The Complete Datacomm Solution.

- Label Printers
- Software
- Communications Cabling Labels
- Power & Ground Labels
- Workstation Labels
- Closet Hardware Labels
- Racks, Panels & Frame Labels
- Continuous Labels

[www.bradyid.com/datacomm](http://www.bradyid.com/datacomm)

# The Complete Datacomm Solution

In datacomm, immediate identification of wires, cables and assets is essential.

As a leader in datacomm solutions, Brady offers a variety of labels, printers and software to give you the advantage of excellent performance.

Identification of cables and panels specifically in areas of telecommunications, electrical, and datacomm is directly connected to performance. The ability for professionals to map a cables path across connected components is important in reducing the time taken to troubleshoot and locate networking problems.

Brady carries a variety of label materials, from self-laminating cable markers to white polyester labels, which are ideal for any datacomm identification situation. Whether your custom label printing needs are high or low volume, Brady has a printer for your needs.

The high volume Brady IP™ Series Printer will provide high quality, cost effective labels. Portable printers like the IDXPRT™ Handheld Labeler or the TLS 2200® Thermal Labeling System allow you to print custom labels at the point of need.

Along with providing you with the latest product solutions, Brady also provides training by professionals and the best customer product support, to ensure your investment is maximized.

Label printing and networking software is the easiest way to manage and identify your assets. LABELMARK™ Labeling Software is written for creating identification labels and NetDoc™ Network Cable Management Software allows you to easily document horizontal and backbone cables, hardware, assets, pathways, locations. Its seamless integration with Brady's LabelMark™ label design software gives you a complete documentation and labeling solution to help increase productivity, reduce costs, and improve user services.



Materials

Printing Systems

Software

Services





## Portable Label Printers



**TLS2200**  
THERMAL LABELING SYSTEM

### TLS2200® & TLS PC LINK THERMAL LABELING SYSTEMS

Crisp, thermal-transfer label printing and programmed datacomm specific features make the TLS 2200 printer ideal for the most demanding applications.



**IDXPert**  
HANDHELD LABELER

### IDXPert™ HANDHELD LABELER

Label panels, faceplates, cables, racks, public networks all with one versatile tool. The IDXPert printer can print on die-cut labels, self-laminating labels as well as continuous tapes, all at 300 dpi.



**IDPAL**  
LABELING TOOL

### IDPAL™ LABELING TOOL

ID PAL™ Labeling Tool is an affordable, handheld printer designed for wire, cable, faceplate and industrial ID applications. The ID PAL™ Labeling Tool is the solution for low volume printing associated with moves, adds and changes (MACs).

## Benchtop Label Printers



### BRADY IP™ SERIES PRINTER

Brady's IP™ Series Printer is the first thermal transfer industrial printer to use smart cell technology to communicate with the material, ribbon and software. The IP printer is a smart simple solution for data comm professionals in need of high volume printing. The IP printer's operators are able to use the system with minimal training which increases worker productivity.

(Other benchtop thermal transfer printers available: Tagus, MVP Series, X-Plus II Series, BP 1244/1344 Series)

## Software

### NETDOC™ NETWORK DOCUMENTATION

Stop following a tangle of cables around the office. NetDoc™ Network Documentation and Cable Management software allows you to easily document every aspect of your network, including horizontal and backbone cables, hardware, assets, pathways, locations, users and more.



Learn more about the NetDoc Network Documentation solution—visit [www.bradyid.com/netdoc](http://www.bradyid.com/netdoc) or call 1-888-272-3946.

**ANSI/TIA/EIA-606A Compliant**



### LABELMARK™ LABELING SOFTWARE

LabelMark™ software allows you to easily format cable, faceplate and closet labels. The software includes templates for all the Brady labels designed for your application, and has built in templates to automatically format 110 block and patch panels.

## Services - Product Training & Customer Support

Whether installing your software for the first time or maintaining an existing database, NetDoc Customer Support is available when needed. Our Support Specialists are committed to getting you the fast accurate answers you need in order to be successful.

With our support and maintenance plan, Brady clients receive unlimited telephone and email support during support hours (7am - 6pm CST).

Also, Brady offers instructor led training to provide your team with the concepts and skills necessary to use the NetDoc Solution. For information about NetDoc Software Training call us at 1-800-537-8791.



## How To Read A Part Number

**PTL-21-427**

**Print Technology:**

- PTL,:** TLS 2200® Thermal Labeling System
- XSL,X,XC,XF:** IDXPRT™ Handheld Labeler
- LAT:** LaserTab
- THT:** Benchtop Thermal Transfer Printers  
(IP, Tagus, MVP Series, X-Plus II Series, BP 1244/1344 Series)

**Brady Die Number**

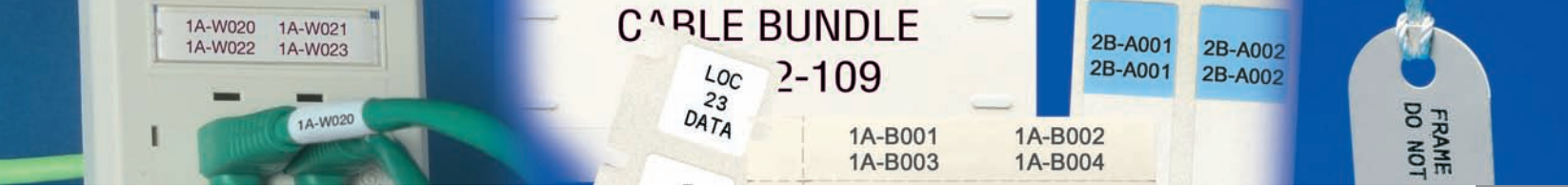
**Brady Materials:**

See page 5 for material descriptions.  
Log on to [www.bradyid.com](http://www.bradyid.com) to access our Technical Data Sheets Database.

## Communications Cabling Labels

Application	TLS 2200 Labels	IDXPRT Labels	LaserTab Labels	Benchtop Thermal Transfer Labels
<b>4 pair UTP, Cat 5, Cat 5e, Cat 6, Silver satin</b>				
1.000" W x 1.500" H (25.40 mm W x 38.10 mm H)	PTL-31-427*	XSL-31-427	.	.
1.000" W x 1.330" H (25.40 mm W x 33.78 mm H)	.	.	LAT-18-361	.
1.000" W x 1.437" H (25.40 mm W x 36.50 mm H)	.	.	.	THT-9-427
<b>4 pair STP, 25 Pair copper</b>				
1.000" W x 2.500" H (25.40 mm W x 63.50 mm H)	PTL-21-427*	XSL-21-427	.	.
1.000" W x 3.167" H (25.40 mm W x 80.44 mm H)	.	.	LAT-19-361	THT-75-427
<b>50 pair copper</b>				
1.500" W x 4.000" H (38.10 mm W x 101.60 mm H)	PTL-33-427*	XSL-33-427	.	.
1.000" W x 3.750" H (25.40 mm W x 95.25 mm H)	.	.	.	THT-10-427
<b>Fiber strand</b>				
1.500" W x 6.000" H (38.10 mm W x 152.40 mm H)	PTL-34-427*	XSL-34-427	.	.
1.000" W x 3.750" H (25.40 mm W x 95.25 mm H)	.	.	.	THT-10-427
<b>Fiber/Coax</b>				
1.180" W x 0.788" H (30.00 mm W x 20.00 mm H)	PTLFT-01-425	.	.	.
<b>2 pair fiber</b>				
1.000" W x 3.375" H (25.40 mm W x 85.73 mm H)	PTL-64-427	.	.	.
<b>4-12 pair fiber</b>				
1.000" W x 1.000" H (25.40 mm W x 25.40 mm H)	PTL-19-427*	XSL-19-427	LAT-17-361	.
0.750" W x 0.937" H (19.05 mm W x 23.80 mm H)	.	.	.	THT-56-427
<b>Flags</b>				
1.000"W x 1.000" H (25.40mm W x 25.40mm H)	.	XF-151-499	.	.
1.500"W x 0.500" H (38.10mm W x 12.70mm H)	.	XF-152-499	.	.
1.180"W x 0.788" H (30.00mm W x 20.00mm H)	PTLFP-01-425	.	.	.
1.180"W x 0.788" H (30.00mm W x 20.00mm H)	PTLFT-01-425	.	.	.
<b>RG-6 Coax, RG-59 Coax</b>				
1.000" W x 2.500" H (25.40 mm W x 63.50 mm H)	PTL-21-427*	XSL-21-427	.	.
1.000" W x 3.167" H (25.40 mm W x 80.44 mm H)	.	.	LAT-19-361	.
1.000" W x 2.250" H (25.40 mm W x 57.15 mm H)	.	.	.	THT-75-427
<b>Backbone cable</b>				
1.000" W x 1.500" H (25.40 mm W x 38.10 mm H)	PTL-31-427*	XSL-31-427	.	.
1.000" W x 1.330" H (25.40 mm W x 33.78 mm H)	.	.	LAT-18-361	.
1.000" W x 1.437" H (25.40 mm W x 36.50 mm H)	.	.	.	THT-9-427
1.000" W x 4.000" H (25.40 mm W x 101.60 mm H)	PTL-23-427	XSL-23-427	.	.
1.938" W x 3.150" H (49.23 mm W x 80.00 mm H)	PTL-66-427	.	.	.
<b>Cable Bundles</b>				
0.750" W x 3.000" H (19.05 mm W x 76.20 mm H)	PTL-12-109	.	.	.

\* These labels are available in Blue, Brown, Gray, Green, Orange, Purple, Red and Yellow. All PTL label sizes are available in a Plenum rated version (PTL-XX-642) in white only. Cable sizes vary by manufacturer, so it is always recommended to try a particular size for your application.



## Material Descriptions

Material	Description	Ribbon #	Material	Description	Ribbon #
B-109	Polyethylene Tag	R4310, R6210	B-430	Clear Polyester	R4410, R6010
B-124	Non-Adhesive Paper Inserts	N/A - Laser Printer	B-432	Rough Surface Polyester	R4410, R6010
B-145	Rigid Polyethylene Tag	R6210	B-439	Permanent Vinyl	R6010
B-361	Self-Laminating Polyester	N/A - Laser Printer	B-483	Ultra Aggressive Polyester	R4410, R6010
B-412	Polypropylene Tag	R4310, R6210	B-489	Ultra Aggressive Polyester	R4310, R6010
B-422	Permanent Polyester	R4410, R6010	B-707	Rough Surface Polyester	N/A - Laser Printer
B-423	Permanent Polyester	R4410, R6010	B-712	Rough Surface Polyester	N/A - Laser Printer
B-425	Permanent Polypropylene	R4310, R6210	B-747	Permanent Polyester	N/A - Laser Printer
B-427	Self-Laminating Vinyl	R4310, R6210	B-759	General Purpose Paper	N/A - Laser Printer

## Power & Ground Labels

Application	TLS 2200 Labels
<b>145P tag - Flame Retardant*</b>	
1.206 x 0.758 (19.25mm W x 30.36mm H)	PTL-110-145FR-GY
<b>145C tag - Flame retardant*</b>	
1.750 x 1.000 (44.45mm W x 25.40mm H)	PTL-111-145FR-GY
<b>145P tag*</b>	
1.206 x 0.758 (19.25mm W x 30.36mm H)	PTL-110-145-GY

\*Available in bulk quantities

Application	TLS 2200 Labels
<b>145C tag*</b>	
1.750 x 1.000 (44.45mm W x 25.40mm H)	PTL-111-145-GY
<b>Non-adhesive*</b>	
0.750 x 3.000 (19.05mm W x 76.20mm H)	PTL-12-109
<b>Cable tags</b>	
1.750 x 1.125 (44.45mm W x 28.57mm H)	PTL-36-109

\*Available in bulk quantities

## Workstation Labels

Brady offers larger location labels for the entire faceplate and smaller labels to identify each individual port. Our proprietary adhesives stay attached to the textured plastics widely used in the industry.

Application	TLS 2200 Labels	IDXPRT Labels	LaserTab Labels	Benchtop Thermal Transfer Labels
<b>Desi-Strip Labels</b>				
1.938 x 0.375 (48.26mm W x 9.52mm H) white	PTL-40-412	X-375-412	LAT-176-124	THT-150-412
<b>Location ID</b>				
1.000 x 0.375 (25.40mm W x 9.52mm H) white	PTL-16-422	•	LAT-8-707	THT-3-422
1.000 x 0.375 (25.40mm W x 9.52mm H) clear	PTL-16-430	•	LAT-8-712	THT-3-430
1.000 x 0.500 (25.40mm W x 12.70mm H) white	PTL-17-422	X-17-422	LAT-7-707	THT-5-422
1.000 x 0.500 (25.40 x 12.70)	PTL-17-430	X-17-432-CL-BLK	LAT-7-712	•
1.500 x 0.375 (38.10mm W x 9.52mm H) white	PTL-45-422	•	LAT-47-707	THT-147-422
1.500 x 0.375 (38.10mm W x 9.52mm H) clear	PTL-45-430	•	LAT-47-712	THT-147-430
1.500 x 0.500 (38.10mm W x 12.70mm H) white	PTL-29-422	X-29-422	LAT-41-707	THT-37-422
1.500 x 0.500 (38.10mm W x 12.70mm H) clear	PTL-29-430	•	LAT-41-712	THT-37-430
<b>Outlet/Jack ID</b>				
0.500 x 0.375 (12.70mm W x 9.52mm H) white	PTL-44-422	•	LAT-45-707	THT-148-422
0.500 x 0.375 (12.70mm W x 9.52mm H) clear	PTL-44-430	•	LAT-45-712	THT-148-430
0.500 x 0.500 (12.70mm W x 12.70mm H) white	PTL-7-422	X-7-422	LAT-46-707	THT-149-422
0.500 x 0.500 (12.70mm W x 12.70mm H) clear	PTL-7-430	•	LAT-46-712	THT-149-430
<b>GENERAL ID</b>				
0.375 (9.52mm) cont. white	PTL-46-422	XC-375-422	•	•
0.375 (9.52mm) cont. clear	PTL-46-430	•	•	•

## Closet Hardware Labels

Application	TLS 2200 Labels	IDXPRT Labels	LaserTab Labels	Benchtop Thermal Transfer Labels
<b>Patch Panel- 4 PORT</b>				
0.375" W x 0.600" H (9.53 mm W x 15.24 mm H)	PTL-39-422	•	•	•
19.000" W x 0.375" H (482.60 mm W x 9.53 mm H)	•	XC-375-422	•	•
2.875" W x 0.375" H (73.03 mm W x 9.53 mm H)	•	•	LAT-43-707	•
3.000" W x 0.250" H (76.20 mm W x 6.35 mm H)	•	•	•	THT-16-423
<b>Patch Panel - 6 PORT</b>				
0.375" W x 0.600" H (9.53 mm W x 15.24 mm H)	PTL-39-422	•	•	•
19.000" W x 0.375" H (482.60 mm W x 9.53 mm H)	•	XC-375-422	•	•
3.600" W x 0.375" H (91.44 mm W x 9.53 mm H)	•	•	LAT-44-707	•
<b>Patch Panel - ID PORT</b>				
0.500 x 0.375 (12.70mm W x 9.52mm H) white	PTL-44-422	•	LAT-45-707	THT-148-422
0.500 x 0.375 (12.70mm W x 9.52mm H) clear	PTL-44-430	•	•	THT-148-422
0.500 x 0.500 (12.70mm W x 12.70mm H) white	PTL-7-422	X-7-422	LAT-46-707	THT-149-422
0.500 x 0.500 (12.70mm W x 12.70mm H) clear	PTL-7-430	•	LAT-46-712	•
0.500 x 0.750 (12.70mm W x 19.05mm H) clear	PTL-11-432	•	•	•
0.750 x 0.250 (19.05mm W x 6.35mm H) white	PTL-10-423	•	•	•
0.750 x 0.250 (19.05mm W x 6.35mm H) clear	PTL-10-432	•	•	•
<b>Patch Panel / Continuous Tapes</b>				
0.250 (6.35) x continuous clear	PTL-101-432	•	•	•
0.250 (6.35) x continuous white	PTL-101-483	•	•	•
0.250 (6.35) x continuous white	PTL-101-489	•	•	•
0.375 (9.52) x continuous clear	PTL-46-430	•	•	•
<b>110 Blocks*</b>				
19.000" W x 0.475" H (482.60 mm W x 12.07 mm H)	•	XC-475-412	•	•
7.900" W x 0.475" H (200.66 mm W x 12.07 mm H)	•	•	LAT-177-124*	•
7.900" W x 0.475" H (200.66 mm W x 12.07 mm H)	•	•	LAT-177-124-BL	•
<b>Box Blocks*</b>				
19.000" W x 0.625" H (482.60 mm W x 15.88 mm H)	•	XC-625-412	•	•
6.625" W x 0.625" H (168.28 mm W x 15.88 mm H)	•	•	LAT-178-759*	•
<b>Lucent Patchmax*</b>				
19.000" W x 0.500" H (482.60 mm W x 12.70 mm H) WHITE	•	XC-500-422	•	•
3.062" W x 0.500" H (77.77 mm W x 12.70 mm H)	•	•	LAT-175-124*	•
<b>Faceplate</b>				
1.000" W x 0.375" H (25.40 mm W x 9.53 mm H)	•	•	LAT-8-707	•
<b>4 Pair Cable</b>				
1.000" W x 1.330" H (25.40 mm W x 33.78 mm H)	•	•	LAT-18-361	•
<b>6 Port Grouping On Patch Panel</b>				
3.600" W x 0.375" H (91.44 mm W x 9.53 mm H)	•	•	LAT-44-707	•
<b>Faceplate/Patch Panel</b>				
0.500" W x 0.375" H (12.70 mm W x 9.53 mm H)	•	•	LAT-45-707	•
1.500" W x 0.500" H (38.10 mm W x 12.70 mm H)	•	•	LAT-47-707	•

\* These labels are available in Blue, Brown, Gray, Green, Orange, Purple, Red and Yellow to comply with TIA/EIA 606-A.

### LASERTAB LANPAK

Brady offers a LAT-LANPAK, which features 10 sheets of all of the label sizes below. These sizes represent our more popular label sizes:

Part Number	Application	Size Inch (mm)	Part Number	Application	Size Inch (mm)
LAT-8-707	Faceplate	1.000 x 0.375 (25.40 x 9.53)	LAT-47-707	Faceplate/Patch Panel	1.500 x 0.500 (38.10 x 12.70)
LAT-18-361	4 Pair Cable	1.000 x 1.330 (25.40 x 33.78)	LAT-176-124	Faceplate Desi-Strips	1.980 x 0.380 (50.29 x 9.65)
LAT-44-707	6 Port Grouping on Patch Panel	3.600 x 0.375 (91.44 x 9.53)	LAT-177-124-WH	110 Blocks, in White	7.910 x 0.480 (200.91 x 12.19)
LAT-45-707	Faceplate/Patch Panel	0.500 x 0.375 (12.70 x 9.53)	LAT-177-124-BL	110 Blocks, in Blue	7.910 x 0.480 (200.91 x 12.19)

**Rack , Panel & Frame Labels**

Application	TLS 2200 Labels	IDXPART Labels	LaserTab Labels	Benchtop Thermal Transfer Labels
<b>GENERAL ID</b>				
0.500" W x 2.000" H (12.70 mm W x 50.80 mm H)	PTL-61-483	X-61-483	.	.
0.750" W x 4.000" H (19.05 mm W x 101.60 mm H)	PTL-62-483	.	.	.
4.000" W x 300' H (101.60 mm W x 91.44 m H)	.	.	.	THT-107-483
0.750" W x 8.000" H (19.05 mm W x 203.20 mm H)	PTL-63-483	.	.	.
1.375" W x 1.000" H (34.93 mm W x 25.40 mm H)	PTL-65-483	.	.	.
1.500" W x 1.000" H (38.10 mm W x 25.40 mm H)	PTL-31-483	.	.	.
1.500" W x 0.750" H (38.10 mm W x 19.05 mm H)	PTL-30-483	X-30-422	.	.
1.500" W x 1.500" H (38.10 mm W x 38.10 mm H)	PTL-32-483	.	.	.
2.000" W x 1.000" H (50.80 mm W x 25.40 mm H)	PTL-20-422	.	.	THT-17-483
1.875" W x 0.833" H (47.63 mm W x 21.16 mm H)	.	.	LAT-13-707	.
2.000" W x 1.000" H (50.80 mm W x 25.40 mm H)	PTL-20-483	.	.	THT-17-483
3.000" W x 1.000" H (76.20 mm W x 25.40 mm H)	PTL-22-422	.	.	THT-18-483
1.750" W x 1.000" H (44.45 mm W x 25.40 mm H)	.	.	LAT-24-747	.
3.000" W x 1.900" H (76.20 mm W x 48.26 mm H)	PTL-37-422	.	.	THT-19-483
3.00"W x 1.90" H Arc Flash Danger Header	PTL-37-483-DANGER	.	.	.
3.00"W x 1.90" H Arc Flash Warning Header	PTL-37-483-WARNING	.	.	.
4.000" W x 1.000" H (101.60 mm W x 25.40 mm H)	PTL-23-422	.	.	THT-107-483
2.000" W x 1.437" H (50.80 mm W x 36.50 mm H)	.	.	LAT-33-707	.
4.000" W x 1.900" H (101.60 mm W x 48.26 mm H)	PTL-38-422	.	.	.
3.000" W x 1.437" H (76.20 mm W x 36.50 mm H)	.	.	LAT-34-707	.
<b>BRADYBONDZ™ Labels</b>				
4.000" W x 1.000" H (101.60 mm W x 25.40 mm H)	PTL-23-483	.	.	.
0.500" W x 50' H (12.70 mm W x 15.24 m H) White	PTL-8-483	.	.	.
0.500" W x 50' H (12.70 mm W x 15.24 m H) White	PTL-8-489	.	.	.
1.000" W x 50' H (25.40 mm W x 15.24 m H) White	PTL-42-483	.	.	.

**Continuous Tapes for TLS 2200® & IDXPART™ Labels**

Size (mm)	TLS 2200 Labels	IDXPART Labels
0.250" W x 50' H (6.35 x 15.24m) White	PTL-101-483	.
0.250" W x 50' H (6.35 x 15.24m) White	PTL-101-489	.
0.375" W x 50' H (9.53 x 15.24m) White	PTL-46-422	XC-375-422
19.00" W x 0.375" H (482.60 x 9.53m) Clear	.	XC-375-422
0.375" W x 50' H (9.53 x 15.24m) Clear	PTL-46-430	.
0.500" W x 50' H (12.70 x 15.24m) White	PTL-8-422	XC-500-422
0.500" W x 50' H (12.70 x 15.24m) Clear	PTL-8-430	.
0.500" W x 50' H (12.70 x 15.24m) Clear	PTL-8-432	.
0.500" W x 50' H (12.70 x 15.24m) White	PTL-8-439•	.
1.000" W x 50' H (25.40 x 15.24m) White	PTL-42-439•	.
1.000" W x 50' H (25.40 x 15.24m) Clear	PTL-42-432**	XC-1000-432-CL-BLK
19.000" W x 1.000" H (482.60 x 25.40)	.	XC-1000-483
1.000" W x 50' H (25.40 x 15.24m) White	PTL-42-489	.
1.300" W x 50' H (33.02 x 15.24m) Clear	PTL-100-432***	.
1.300" W x 50' H (33.02 x 15.24m) White	PTL-100-483***	.
1.300" W x 50' H (33.02 x 15.24m) White	PTL-100-489***	.
1.900" W x 50' H (48.26 x 15.24m) Clear	PTL-43-432	.
1.900" W x 50' H (48.26 x 15.24m) White	PTL-43-489	.
1.900" W x 50' H (48.26 x 15.24m) White	PTL-43-483	.
1.900" W x 50' H (48.26 x 15.24m) White	PTL-43-439•	.
19.000" W x 0.500" H (482.60 x 12.70) BLACK ON WHITE		XC-500-580-WT-BK*
19.000" W x 1.000" H (482.60 x 25.40) BLACK ON WHITE		XC-1000-580-WT-BK*
19.000" W x 1.500" H (482.60 x 38.10) BLACK ON WHITE		XC-1500-580-WT-BK*

\*COLORS AVAILABLE FOR IDXPART:



\*\* B-432 material available in additional label sizes. Red, white and blue ribbon colors also available.  
 \*\*\* This is the minimum width continuous tape needed to print a 3/4" font.  
 • Available in color.

## THE ANSI/TIA/EIA 606-A STANDARD

The standard specifies administration for a generic telecommunications cabling system that will support a multi-product, multi-vendor environment. It provides a uniform administration approach that is independent of applications, which may change several times throughout the life of the telecommunications infrastructure. It establishes guidelines for owners, end users, manufacturers, consultants, contractors, designers, installers and facilities administrators involved in the administration of the telecommunications infrastructure.

Use of this Standard is intended to increase the value of the system owner's investment in the infrastructure by reducing the labor expense of maintaining the system, extending the useful economic life of the system and providing effective service to users.

### CLASSES OF ADMINISTRATION

There are four classes of administration that all cabling systems fall within:

**Class 1** is for systems within a single building having only one Telecommunications Room (TR) that all workstation cabling runs to. The TR, Horizontal Links (HLs) and Telecommunications Main Grounding Busbar (TMGB) are required to be labeled and administered. If the system owner wishes to document pathways or fire stopping locations, Class 2 administration should be used.

**Class 2** is for systems within a single building that are served by multiple TR's. Class 2 includes administration for backbone cabling, multi-element grounding and bonding, fire stopping as well as all the items within Class 1.

**Class 3** is for systems spanning multiple buildings, known as a campus environment. Class 3 includes administration for buildings and inter-building cabling as well as all elements of Class 2. Administration of Pathways, Spaces and Outside Plant elements is recommended.

**Class 4** is for systems spanning multiple campuses, known as multi-site system. Class 4 included administration for each site as well as all elements of Class 3. Administration of Pathways, Spaces and Wide area network connections is recommended.

### IDENTIFIERS

A unique identifier is associated with each element of the infrastructure to be identified and serves as the key to finding the recorded information within the administration system selected.

Identifier	Description of Identifier	Class of Administration				Identifier	Description of Identifier	Class of Administration			
		1	2	3	4			1	2	3	4
fs	telecommunications space (TS)	R	R	R	R	[b1-fs1]/[b2-fs2]-n.d	interbuilding backbone pair or optical fiber			R	R
fs-an	horizontal link	R	R	R	R	b	building			R	R
fs-TMGB	telecommunications main grounding busbar	R <sup>1</sup>	R <sup>1</sup>	R <sup>1</sup>	R <sup>1</sup>	c	campus or site				R
fs-TGB	telecommunications grounding busbar	R <sup>1</sup>	R <sup>1</sup>	R <sup>1</sup>	R <sup>1</sup>	fs-UUU.n.d(q)	intrabuilding backbone pathway element	0	0	0	0
fs1/fs2-n	intrabuilding backbone cable		R	R	R	fs1/fs2-UUU.n.d(q)	intrabuilding backbone pathway between two TSs or areas	0	0	0	0
fs1/fs2-n.d	intrabuilding backbone pair or optical fiber		R	R	R	[b1-fs1]/[b2-fs2]-UUU.n.d(q)	interbuilding pathway or element			0	0
f-FSLn(h)	firestop location		R	R	R						
[b1-fs1]/[b2-fs2]-n	interbuilding backbone cable			R	R						

R = Required O = Optional

### LABELING VISIBILITY AND DURABILITY

The size, color and contrast of all labels should be selected to ensure that the identifiers are easily read. Labels should be visible during the installation of and normal maintenance of the infrastructure. Labels should be resistant to the environmental conditions at the point of installation (such as moisture, heat or ultraviolet light) and should have a design life equal to or greater than that of the labeled component.

#### Mechanical generation

To maximize legibility, all labels shall be printed or generated by a mechanical device and shall not be written by hand.

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