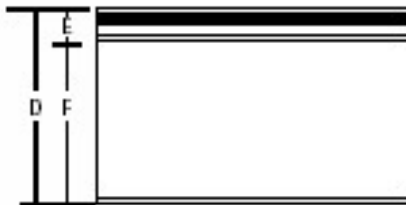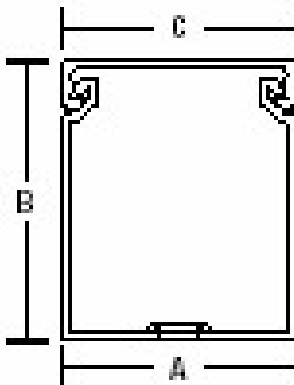# Ty-Duct™

T&B Catalog Number: **TY3X4SPG6**
UPC Number: 78621096005
Description: Wiring Duct Solid Wall 3"x4" Rigid PVC Gray

Status: Active

General

Style	Solid Wall
Nominal Width (inches)	3
Nominal Height (inches)	4
Material	Rigid PVC
Color	Gray
Adhesive-Backed	No
Mounting Holes	Yes

Dimension Information

Width (inches)	3.25
Height (inches)	4.46
A (inches)	3.25
B (inches)	4.46
C (inches)	3.25
D (inches)	4.39
E (inches)	0.39
F (inches)	4.00

Accessories & Components

Cover	TY3CPG6

Packaging

T&B Order Multiple	60
T&B Inner Pack	6
Package in Units	60
T&B Sold in UOM	Feet
T&B Weight Per UOM	88.33 lbs. per 100

Application Support

Product Selector	TD_selector_duct_gray
T&B Sales Drawings	wsd-000179
Technical Information	Available on Website
Specifications	Available on Website
Overview	Available on Website
Wire Fill Calculator	Available on Website

Notes

|	
Options	Catalog Number must be completed by adding suffix G for Gray, W for White, B for Black, I for Intrinsic Blue. To order Adhesive-Backed duct, add suffix A. To order duct without mounting holes, add suffix NM to catalog number. Contact Customer Service for pricing and availability.
	Standard lengths are 6 feet.

Certifications

RoHS Compliance	Yes

Webcat CE_recognized   Y

Certifications
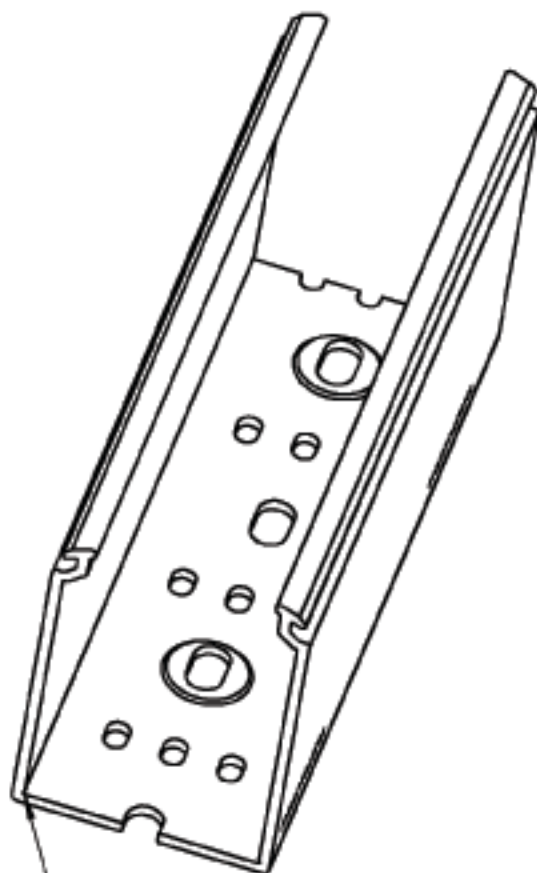
BOTTOM SCORE LINE

NOTES:

1. MATERIAL: RIGID PVC

2. TEMPERATURE RATING: -40°F [-40°C] TO 122°F [50°C]

3. FLAMMABILITY RATING: UL94V-0

4. NORTH AMERICAN AND DIN STYLE MOUNTING HOLES

5. FLUSH MOUNT COVER DESIGN. COVER MOUNTS FLUSH WITH SIDE WALLS

GENERAL NOTES	
1. ALL DIMENSIONS ARE FOR REFERENCE ONLY. 2. DIMENSIONS IN BRACKETS [ ] ARE IN METRIC UNITS.	
REVISIONS	

Thomas&Betts

DESCRIPTION:

SOLID WALL WIRING DUCT

REVISIONS					
2	SEE ERN 2006994 FOR APPROVAL SIGNATURES & RELEASE DATE. PROJECT NO: FD55400				

ORIGINAL PROJECT NO / (ERN NO)	SHEET NO:	REV. NO:	DRAWING NO:
FD55400 / [2005724]	1 OF 6	2	WSD-000179

.315 x .551 SLOT
[8,0] x [14,0]

.201 x .315 SLOT
[5,1] x [8,0]

.984
[24,99]

.984
[24,99]

1.000
[25,4]

B

72.000
[1828,8]

TY-DUCT-TB3X18PG6   TY-DUCT-TB3X18PG6

A
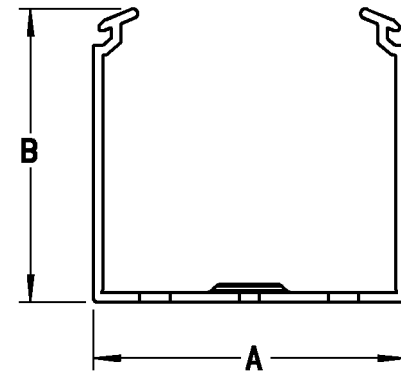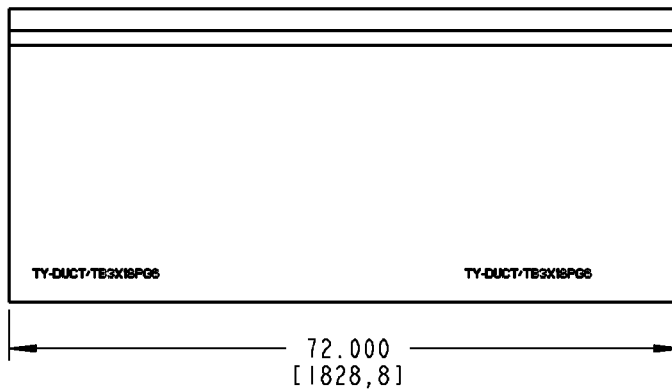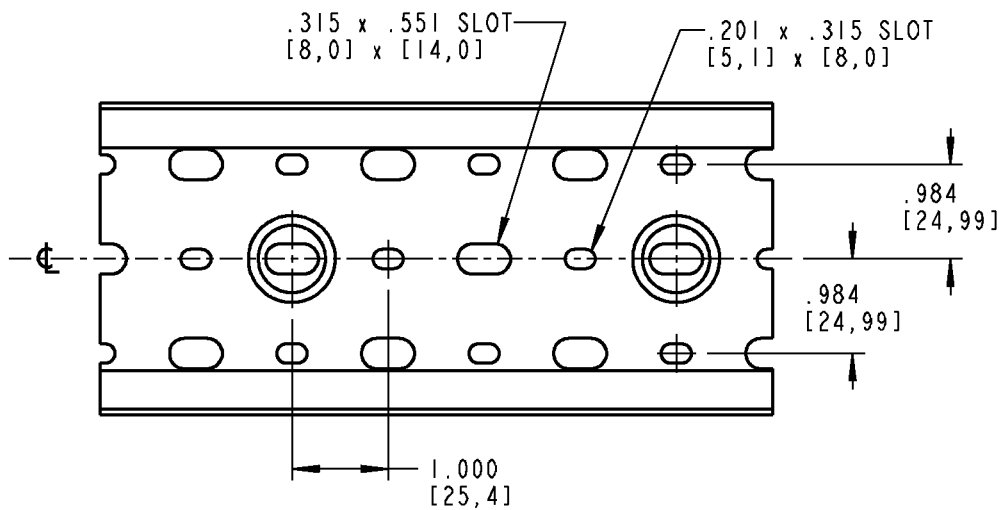
CATALOG NO.	A (WIDTH)	B (HEIGHT)	COVER CATALOG NO.
TY3X1SP*6	3.285 [82,55]	1.055 [26,8]	TY3CP*6
TY3X2SP*6		2.081 [52,86]	
TY3X3SP*6		3.056 [77,62]	
TY3X4SP*6		4.387 [111,43]	
TY3X5SP*6		5.061 [128,55]	
TY4X15SP*6	4.250 [107,95]	1.567 [39,8]	TY4CP*6
TY4X2SP*6		2.081 [52,86]	
TY4X3SP*6		3.056 [77,62]	
TY4X4SP*6		4.387 [111,43]	
TY4X5SP*6		5.061 [128,55]	
TY6X4SP*6	6.250 [158,75]	4.387 [111,43]	TY6CP*6

* = COLOR CODE

B = BLACK   G = GRAY   I = INTRINSIC BLUE   W = WHITE

Thomas&Betts

DESCRIPTION: SOLID WALL WIRING DUCT

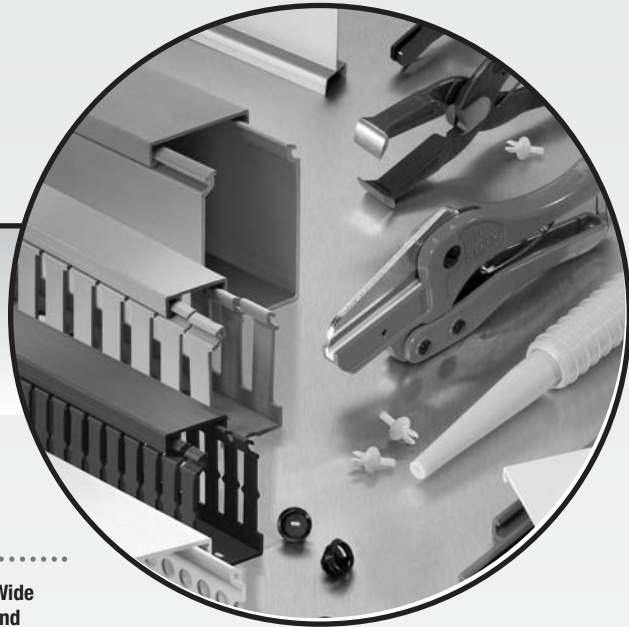| SHEET NO:	REV. NO:	DRAWING NO:
5 OF 6	2	WSD-000179

Ty-Duct™ and Accessories

Overview

Ty-Duct™ — The versatile configurations you need for routing and concealing wiring!

Thomas & Betts' innovative new Ty-Duct™ products offer a total solution for routing and concealing wiring in control panels. Many different sizes are available to accommodate anything from the smallest wallmount panel to the larger integrated systems!

Here are some of the impressive features incorporated into all of our wiring duct solutions.

Ty-Duct Features

- **Available in Solid, Wide Slot, Narrow Slot, and Round Hole versions to meet your capacity and flexibility needs**

- **Widths from .75" to 6" and depths from 1" to 5"**

- **Optional adhesive back for quick, hassle-free installation**

- **Complete selection of accessories and tools for installation**

- **Lead-free construction**

- **Lightweight Halogen-free unit available for Wide Slot Wiring Duct**
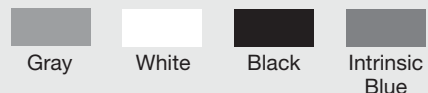
Ty-Duct Certifications

- **UL Recognized Continuous-Use Temperature — 122º F (50º C)**

- **UL 94 Flammability — Rating of V-0**

- **Conforms with NFPA 79-2002 Section 14.3.1 Requirement for Flame Retardant Material**

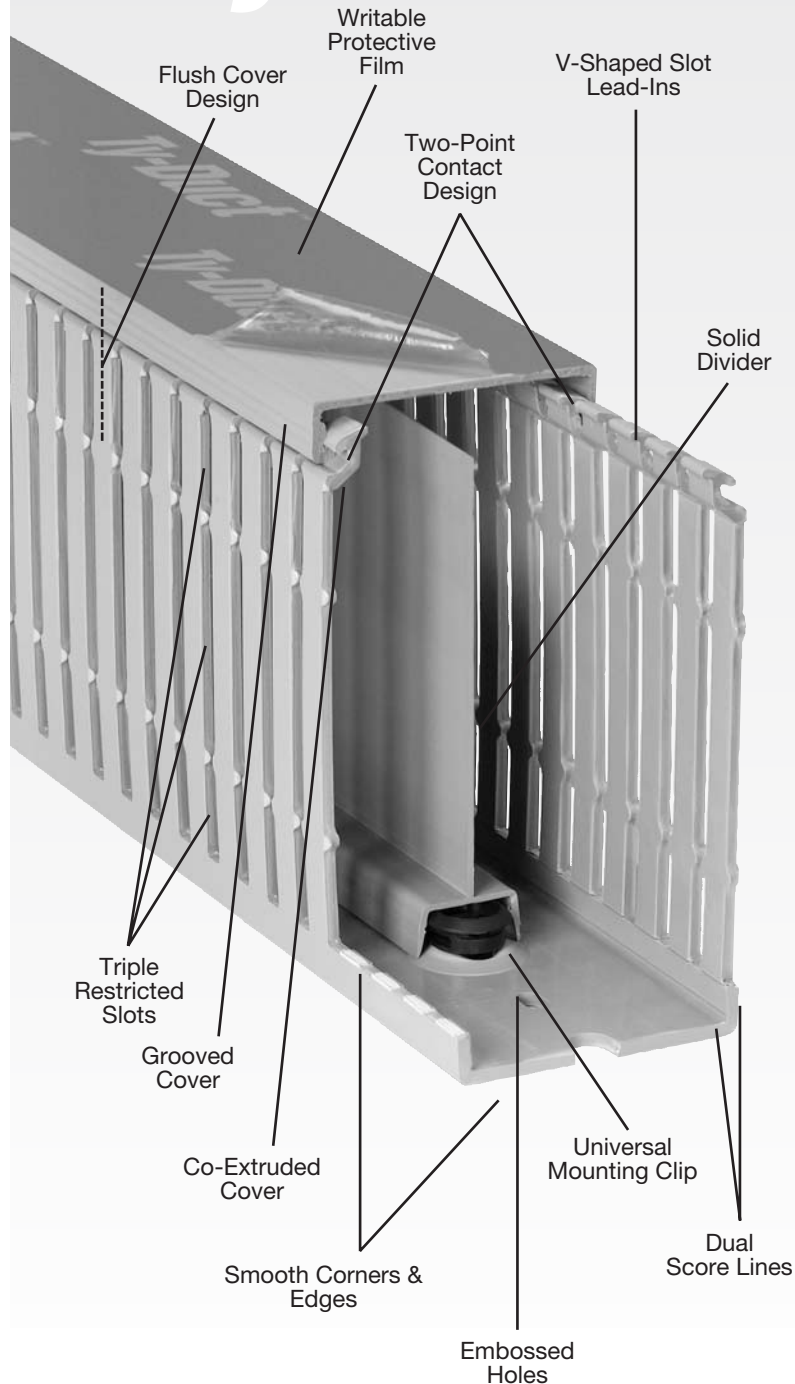- **CE compliant for European shipping**

- **CSA Certified**

- **RoHS Compliant**

Available in 4 Colors

| Gray | White | Black | Intrinsic Blue |

Thomas&Betts
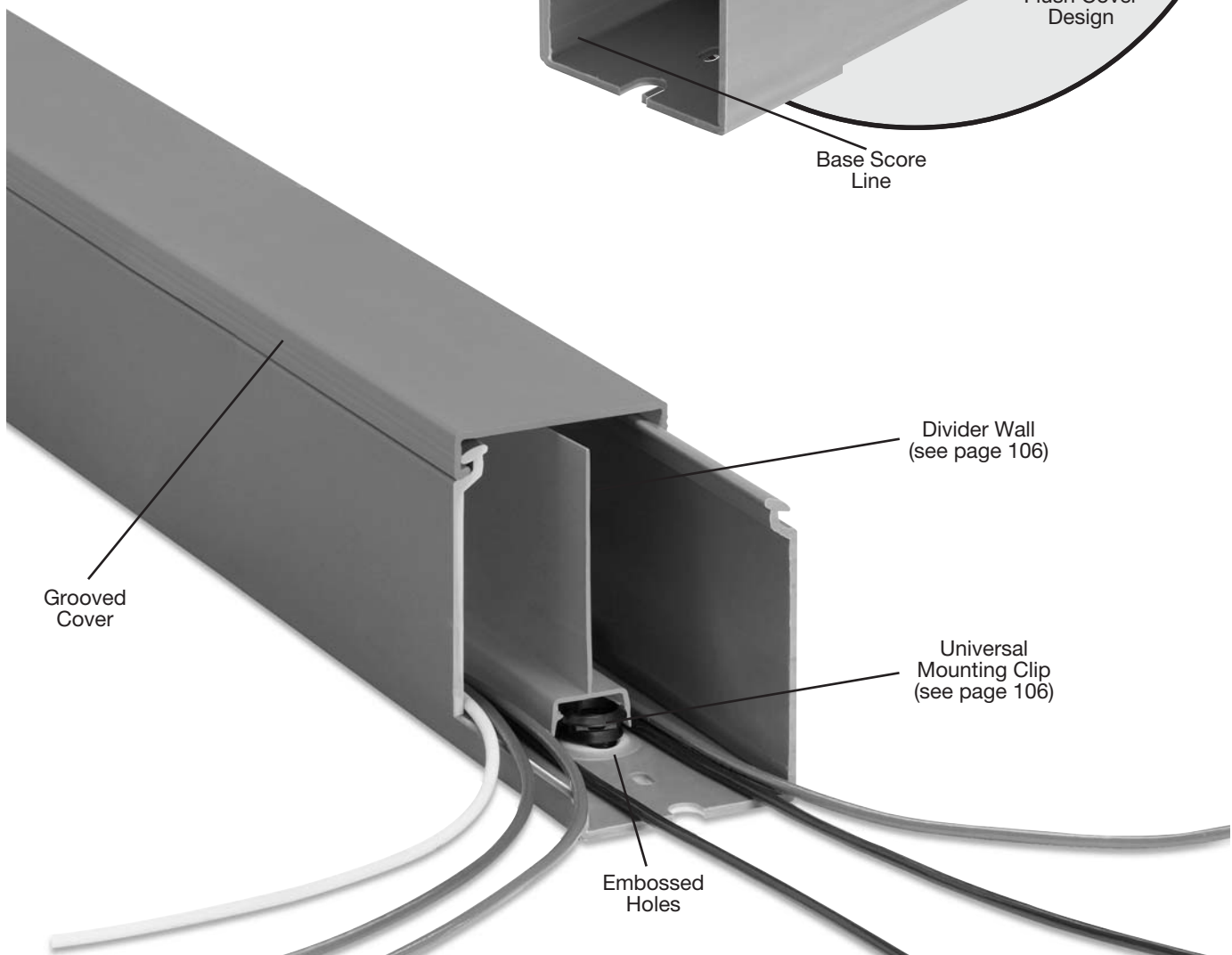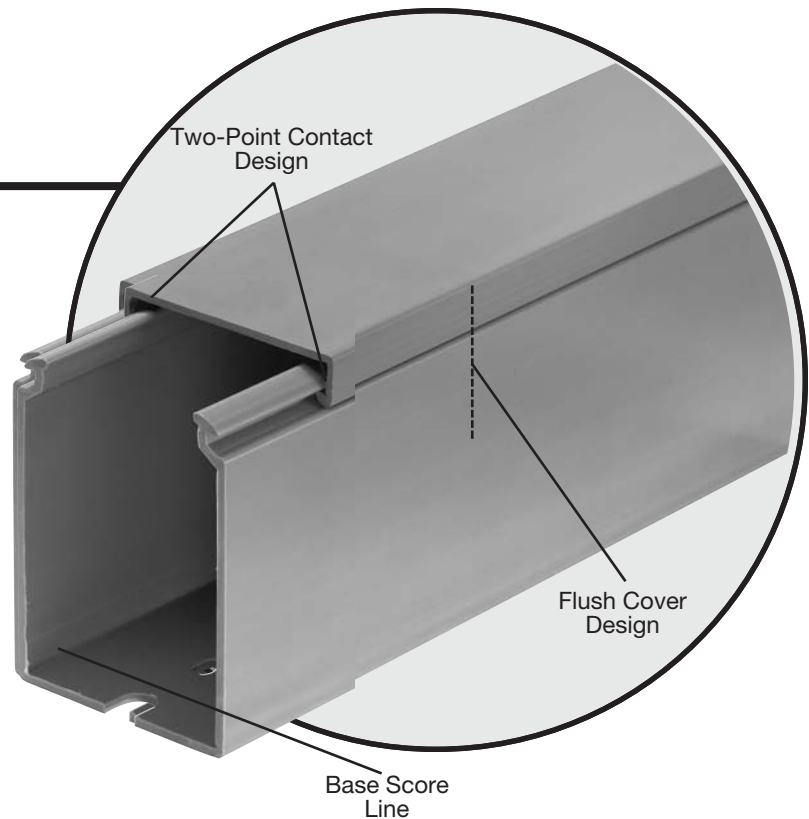
Overview

Ty-Duct™

Ty-Duct™ Advantages

- **Two-point contact** design enables the cover to be easily installed in the right place with less force

- **Co-extruded cover** ensures the cover will stay in place and will not slip once installed

- **Smooth corners and edges** will not damage or disfigure wires

- **Flush cover design** enables greater capacity and sits flush with duct side wall

- **Triple restricted slots** speed installation while enabling better wire retaining in duct

- **Dual score lines** — Upper score line allows fingers to be broken out without tools and the lower score line allows side wall sections to be removed easily

- **V-shaped slot lead-in** funnels wires into slot for easier wire insertion

- **Staggered mounting hole pattern** (larger widths)

- **Universal Mounting Clip** secures into the base to perform several tasks:
  - Enables divider to be snapped into base
  - Slots in the Universal Mounting Clip allow cable ties to pass through to hold wire bundles in place
  - 2 slot sizes on Universal Mounting Clip accommodate traditional nylon cable ties or hook and loop fasteners

- **Slotted and Solid Divider** accommodates various wiring applications

- **Grooved cover** provides better grip for removal and placement of cover onto base

- **Writable protective film** on covers protects from work site scratches and scuffs and enables temporary marking or labeling

- **Embossed holes** enable Universal Mounting Clips to be installed, even after the duct has been riveted to the panel

- **PVC construction** is excellent for flame retardancy

- **North American and DIN standard mounting holes**

Labels on diagram:
- Flush Cover Design
- Writable Protective Film
- Two-Point Contact Design
- V-Shaped Slot Lead-Ins
- Solid Divider
- Triple Restricted Slots
- Grooved Cover
- Co-Extruded Cover
- Smooth Corners & Edges
- Embossed Holes
- Universal Mounting Clip
- Dual Score Lines

Thomas&Betts

Ty-Duct™
Solid Wall Duct

Fire-resistant PVC offers the protection you need!

Solid Wall Duct—PVC

- Engineered to restrict wire access
- Constructed of flame-retardant PVC
- Improved flush sidewall and cover style for greater wire capacity
- Versatile North American and DIN Standard mounting holes enable same duct for multiple applications
- Base score line
- Lead-free construction

Two-Point Contact Design

Flush Cover Design

Base Score Line

Divider Wall
(see page 106)

Grooved Cover

Universal Mounting Clip
(see page 106)

Embossed Holes

Thomas&Betts

Ty-Duct™
Solid Wall Duct
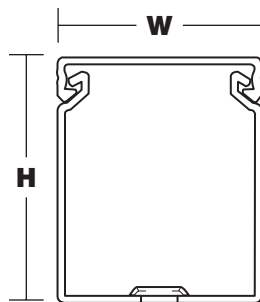
Front View w/Cover

Side View

Bottom View

For a complete listing of Solid Wall dimensional details see page 112.

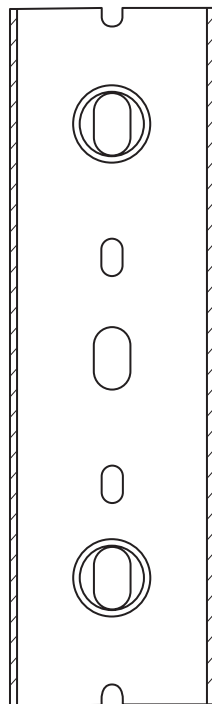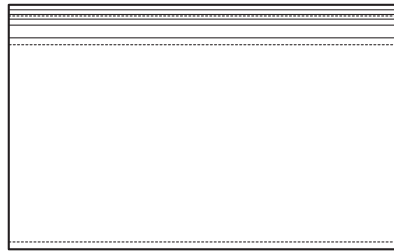| CAT. NO.	DESCRIPTION	SIZE (W x H) IN.	MM	COVER CAT. NO.	DUCT STD. CTN. QTY	COVER STD. CTN. QTY	LENGTH (FT.)
TY75X1SP[_]**6**	.75 x 1 Solid Wall Duct	0.94 x 1.14	23.9 x 29.0		120		
TY75X15SP[_]**6**	.75 x 1.5 Solid Wall Duct	0.94 x 1.60	23.9 x 40.6	**TY75CP**[_]**6**	120	120	6
TY75X2SP[_]**6**	.75 x 2 Solid Wall Duct	0.94 x 2.10	23.9 x 53.3		120		
TY1X1SP[_]**6**	1 x 1 Solid Wall Duct	1.25 x 1.14	31.8 x 29.0		120		
TY1X15SP[_]**6**	1 x 1.5 Solid Wall Duct	1.25 x 1.60	31.8 x 40.6		120		
TY1X2SP[_]**6**	1 x 2 Solid Wall Duct	1.25 x 2.10	31.8 x 53.3	**TY1CP**[_]**6**	120	120	6
TY1X3SP[_]**6**	1 x 3 Solid Wall Duct	1.25 x 3.05	31.8 x 77.5		120		
TY1X4SP[_]**6**	1 x 4 Solid Wall Duct	1.25 x 4.37	31.8 x 111.0		60		
TY15X1SP[_]**6**	1.5 x 1 Solid Wall Duct	1.75 x 1.14	44.5 x 29.0		120		
TY15X15SP[_]**6**	1.5 x 1.5 Solid Wall Duct	1.75 x 1.60	44.5 x 40.6		120		
TY15X2SP[_]**6**	1.5 x 2 Solid Wall Duct	1.75 x 2.10	44.5 x 53.3	**TY15CP**[_]**6**	120	120	6
TY15X3SP[_]**6**	1.5 x 3 Solid Wall Duct	1.75 x 3.05	44.5 x 77.5		120		
TY15X4SP[_]**6**	1.5 x 4 Solid Wall Duct	1.75 x 4.37	44.5 x 111.0		60		
TY2X1SP[_]**6**	2 x 1 Solid Wall Duct	2.25 x 1.24	57.2 x 31.5		120		
TY2X15SP[_]**6**	2 x 1.5 Solid Wall Duct	2.25 x 1.70	57.2 x 43.2		120		
TY2X2SP[_]**6**	2 x 2 Solid Wall Duct	2.25 x 2.19	57.2 x 55.6	**TY2CP**[_]**6**	120	120	6
TY2X3SP[_]**6**	2 x 3 Solid Wall Duct	2.25 x 3.14	57.2 x 79.8		60		
TY2X4SP[_]**6**	2 x 4 Solid Wall Duct	2.25 x 4.46	57.2 x 113.3		60		
TY2X5SP[_]**6**	2 x 5 Solid Wall Duct	2.25 x 5.15	57.2 x 130.8		60		
TY25X2SP[_]**6**	2.5 x 2 Solid Wall Duct	2.75 x 2.19	69.9 x 55.6		120		
TY25X3SP[_]**6**	2.5 x 3 Solid Wall Duct	2.75 x 3.14	69.9 x 79.8	**TY25CP**[_]**6**	60	120	6
TY25X4SP[_]**6**	2.5 x 4 Solid Wall Duct	2.75 x 4.46	69.9 x 113.3		60		
TY3X1SP[_]**6**	3 x 1 Solid Wall Duct	3.25 x 1.24	82.6 x 31.5		120		
TY3X2SP[_]**6**	3 x 2 Solid Wall Duct	3.25 x 2.19	82.6 x 55.6		60		
TY3X3SP[_]**6**	3 x 3 Solid Wall Duct	3.25 x 3.14	82.6 x 79.8	**TY3CP**[_]**6**	60	120	6
TY3X4SP[_]**6**	3 x 4 Solid Wall Duct	3.25 x 4.46	82.6 x 113.3		60		
TY3X5SP[_]**6**	3 x 5 Solid Wall Duct	3.25 x 5.15	82.6 x 130.8		60		
TY4X15SP[_]**6**	4 x 1.5 Solid Wall Duct	4.25 x 1.70	108.0 x 43.2		60		
TY4X2SP[_]**6**	4 x 2 Solid Wall Duct	4.25 x 2.19	108.0 x 55.6		60		
TY4X3SP[_]**6**	4 x 3 Solid Wall Duct	4.25 x 3.14	108.0 x 79.8	**TY4CP**[_]**6**	60	120	6
TY4X4SP[_]**6**	4 x 4 Solid Wall Duct	4.25 x 4.46	108.0 x 113.3		30		
TY4X5SP[_]**6**	4 x 5 Solid Wall Duct	4.25 x 5.15	108.0 x 130.8		30		
TY6X4SP[_]**6**	6 x 4 Solid Wall Duct	6.25 x 4.46	158.8 x 113.3	**TY6CP**[_]**6**	30	60	6

Standard lengths are 6 feet.

Catalog Number must be completed by adding suffix G for Gray, W for White, I for Intrinsic Blue, B for Black.
Example: *TY75X1SPG6 is a .75" x 1" solid wall gray duct.*

To order duct without mounting holes, add suffix NM to catalog number.
Example: *TY75X1SPG6NM is a .75" x 1" solid wall gray duct with no mounting holes.*

To order Adhesive-Backed Duct, add suffix A to Catalog Number.
Example: *TY75X1SPG6A is a .75" x 1" solid wall gray duct with adhesive backing. Shelf life for adhesive is 1 year.*

PVC vinyl duct is UL® Recognized, CSA Certified and CE Compliant.

[_] = space for color identifier:

G = Gray

W = White

B = Black

I = Intrinsic Blue

Ty-Duct™
Specifications

Properties of Materials Used in Wiring Duct

Property	Units	ASTM Test	PVC	Halogen Free
Specific Gravity		D792	1.43	1.10
IZOD	ft.-lb./in.	D256	2	5.0
Flexural Strength	psi	D790	10,900	12,800
Flexural Modulus	psi	D790	382,000	360,000
Tensile Strength	psi	D638	5,500	7,800
Compressive Strength	psi	D695	8,600	16,000
Water Absorption	24 hrs.–%	D570	0.10	0.07
Hardness	Rockwell	D785	R-111	R-115
	Duro D	D676	78	
Dielectric Strength		D149		
60Hz, 25° C,	vpm			400
Dielectric Constant		D150		
60Hz, Dry			1.9	2.65
1MHz, Dry				2.64
Volume Resistivity	ohm-cm	D257		1017
Heat Deflecting (° F@ 264 psi)	° F	D648	158	212
Flammability			94 V-O	94 V-1

The above information is believed reliable. The user should, however, check the applicable specifications to verify values.

Rigid Polyvinyl Chloride (PVC)

- General-purpose material for indoor applications
- UL flammability rating of V-0
- UL94 recognized for use in temperatures up to 50° C (122° F)
- Economical wiring duct material

Halogen Free

- For use in halogen-free or high-temperature applications
- UL flammability rating of V-1
- UL94 recognized for use in temperatures up to 95° C (203° F)
- 20% lighter than PVC

Thomas&Betts