**Pan-Way® T-45 Surface Raceway System**

**Specifications**

T-45 non-metallic multi-channel, two-piece, hinged cover design surface raceway shall be used to route, protect, and conceal data, voice, video, fiber optic and power cabling. The raceway shall be listed as suitable for use in applications up to 600 volts between conductors by Underwriters Laboratories, Inc. per standard 5A, and by Canadian Standards Association, Inc. per 22.2 no. 62.1-03, when screw secured and installed per instructions. A full complement of fittings with a 1" minimum bend radius compliant with TIA/EIA-568-B, must be available as well as device brackets and junction boxes to install a variety of communication and electrical devices. Divider walls must be available to form separate channels in the multi-channel raceway. An offset box shall be available, with versions for "snap-on" as well as "screw mount" faceplates, for mounting the power receptacle or the data receptacles outside of the raceway channel. T-45 raceway will be manufactured from impact resistant material with flammability rating of V-0. T-45 raceway must be tamper resistant yet also allow access for moves, adds and changes. T-45 raceway finish shall be pure color and will resist scratches and dents and will not peel or corrode.

**Technical Information**

- **Material:** Rigid PVC
- **Flammability:** UL94V-0; FT4
- **Voltage rating:** UL-5A 600VAC; CSA C22.2 No. 62.1-03 600V
- **Approvals:** UL Listed 95425 (raceway); UL Listed E116129 (fittings)
- **NEC:** Article 388
- **Color:** IW (Off White), EI (Electrical Ivory), WH (White) available in 8 foot lengths only without adhesive
- **CSI spec form:** LP-CSISPEC-T45-1

**Key features and benefits**

- **Unique size**
  Provides greater capacity in a smaller footprint allowing greater flexibility to match the raceway to the application.

- **1" bend radius control fittings**
  Meets TIA/EIA standard and many warranty requirements

- **Designer profile**
  Maintains the same aesthetically pleasing profile of Panduit® T-70, Twin-70 and TG-70 Raceway which allows all four systems to work together or independently

- **Multi-directional hinge**
  Easy access from either side of the raceway provides more convenience for moves, adds and changes; latch is tamper resistant which provides maximum security for communication cabling and maximum safety for power cabling

- **Multi-channel capable**
  Capable of routing both power and communication cabling in a single raceway

- **Multi-termination options**
  Ability to create many different configurations using in-line termination features, offset boxes or certain Pan-Way surface mount boxes.

**Applications**

Pan-Way® T-45 Non-Metallic Surface Raceway is a multi-channel channel raceway which provides solutions for routing low voltage, fiber optic and/or power cabling along perimeter walls. T-45 Surface Raceway terminates using the T-45 Hinged Data and Power Brackets, T-45 Offset Box and Pan-Way® Surface Mount Outlet Boxes and superior Pan-Way® Snap-On Faceplates. Fittings for T-45 are available to transition to Pan-Way® LD Series Raceways.

**Pan-Way® T-45 Raceway**

- **Raceway Base with adhesive**
  - 8 feet: T45BIW8-A
  - 10 feet: T45BIW10-A

- **Raceway Base without adhesive**
  - 8 feet: T45BIW8
  - 10 feet: T45BIW10

- **Raceway Cover**
  - 8 feet: T45CIW8
  - 10 feet: T45CIW10

- **Divider walls**
  - 8 feet: T45DW8
  - 10 feet: T45DW10

**T-45 Raceway Fittings**

- **Cover coupler fitting:** T45CCIW-X
- **Outside corner fitting:** T45OCIW
- **Inside corner fitting:** T45ICIW
- **Right angle fitting:** T45RAIW
- **End cap fitting:** T45ECIW
- **Entrance end fitting:** T45EEIW
- **Bend radius control fitting:** T45TRI
- **Reducer fitting:** T45RLDIW
- **Tee fitting:** T45TIW
- **Insert for tee fitting:** T45TD

**T-45 Raceway Accessories**

- **Hinged data bracket:** T45HDBIW
- **Wire retainer:** T45WR-X
- **Workstation Outlet Center™ Offset box:** T45WCIW
- **Workstation Outlet Center™ Offset box:** T45WCIW
- **Electrical bracket and box for duplex outlets:** T45HEBIW
- **Electrical bracket and box for rectangular outlets:** T45HEGBIW

All parts listed in Off White (IW) color. To order other colors substitute Electrical Ivory (EI) or White (WH).
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### Wire Fill

![T-45 Raceway Diagram](image)

**Internal Area = 2.12 Sq. In.**

| Raceway Type and Configuration | Fill Area (in²) | Fill (UL Temp Rise Test) | Fill | Fill | Fill | Fill | Fill | Fill | Fill | Fill | Fill | Fill | Fill | Fill | Fill | Fill | Fill | Fill | Fill | Fill | Fill | Fill | Fill | Fill |
|-------------------------------|-----------------|---------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| **Electrical Cables**        |                 |                           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| THHN/THWN/THW10             | 14 AWG 12 AWG 10 AWG | Cat. 5e - Plenum Cat. 5e - Riser Cat. 6 Cat. 6A Cat. 6A Cat. 6A (SD) | RG6  | RG5/u | 2 Strand | 0.111 | 0.130 | 0.164 | DIA = 0.193 | DIA = 0.225 | DIA = 0.240 | DIA = 0.289 | DIA = 0.300 | DIA = 0.330 | DIA = 0.240 | DIA = 0.275 | DIA = 0.242 | DIA = 0.175 |
| **Data Grade Cables**        |                 |                           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| **Coax Cables**              |                 |                           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| **Fiber Optic Cable**        |                 |                           |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| **T-45: No Devices**         | 2.13            | 36                        | 25   | 29   | 43   | 21   | 32   | 18   | 28   | 12   | 19   | 12   | 18   | 9    | 14   | 18   | 28   | 14   | 21   | 18   | 27   | 35   | 53   |
| **T-45: No Devices with wire retainer** | 1.72      | 36                        | 27   | 25   | 23   | 35   | 17   | 25   | 15   | 22   | 10   | 15   | 9    | 14   | 8    | 12   | 15   | 22   | 11   | 17   | 14   | 22   | 28   | 42   |
| **T-45: Power & data with wire retainer & divider wall (2 channels)** | 0.44 | 12                        | 11   | 8    | –    | –    | –    | –    | –    | –    | –    | –    | –    | –    | –    | –    | –    | –    | –    | –    | –    | –    | –    | –    | –    |
| **T-45: Power & data with wire retainer & two divider walls (3 channels)** | 1.20 | –                         | –    | –    | 16   | 24   | 12   | 18   | 10   | 15   | 7    | 10   | 6    | 10   | 5    | 8    | 10   | 15   | 8    | 12   | 10   | 15   | 19   | 29   |
| **T-45: Power and data using the Workstation Outlet Center™ Offset Box** | 0.44 | –                         | –    | –    | 6    | 9    | 4    | 6    | 3    | 5    | 2    | 4    | 2    | 3    | 2    | 3    | 3    | 5    | 2    | 4    | 3    | 5    | 7    | 10   |
| **T-45: Power and data using the Electrical Bracket and Box** | 0.41 | 12                        | 11   | 8    | –    | –    | –    | –    | –    | –    | –    | –    | –    | –    | –    | –    | –    | –    | –    | –    | –    | –    | –    | –    |
| **T-45: Data only using data bracket** | 1.60 | –                         | –    | –    | 14   | 21   | 10   | 15   | 9    | 14   | 6    | 9    | 5    | 8    | 4    | 7    | 9    | 14   | 7    | 10   | 9    | 13   | 17   | 26   |
| **T-45: Data only using data bracket** | 2.00 | –                         | –    | –    | 27   | 41   | 20   | 30   | 17   | 26   | 12   | 18   | 11   | 16   | 9    | 14   | 17   | 26   | 13   | 20   | 17   | 26   | 33   | 49   |
| **T-45: Power and Data using Hinged Data Bracket with Divider Insert** | 0.52 | 12                        | 11   | 8    | –    | –    | –    | –    | –    | –    | –    | –    | –    | –    | –    | –    | –    | –    | –    | –    | –    | –    | –    | –    |
| **T-45: Power and Data using Hinged Data Bracket with Divider Insert** | 1.20 | –                         | –    | –    | 16   | 24   | 12   | 18   | 10   | 15   | 7    | 10   | 6    | 10   | 5    | 8    | 10   | 15   | 8    | 12   | 10   | 15   | 19   | 29   |
| **T-45: Power and Data using Hinged Data Bracket and Box** | 0.22 | 9                         | 7    | 4    | –    | –    | –    | –    | –    | –    | –    | –    | –    | –    | –    | –    | –    | –    | –    | –    | –    | –    | –    | –    |
Pan-Way® T-45 Surface Raceway System

T-45 Raceway

Fittings and Accessories

T45B  T45C

T45CC**-X  T45O C  T45IC  T45RA  T45EC  T45EE

T45TRI  T45RLD  T45TD  T45T  T45HDB  T45DW

T45WR-X  T45WC  T45WC2  T45HEB  T45HEGB

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SRSP24--WW-ENG
Replaces WW-SRSP08
1/2015