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
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 capacity for up to 22 Category 5e cables in a 2.38" footprint which allows 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 proprietary or standard faceplate solutions provides more flexibility to meet end-user connectivity preferences

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.

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Pan-Way® T-45 Raceway

Bases with adhesive
8 feet:	T45BIW8-A
10 feet:	T45BIW10-A

Bases without adhesive
8 feet:	T45BIW8
10 feet:	T45BIW10

Covers
8 feet:	T45CIW8
10 feet:	T45CIW10

Divider walls
8 feet:	T45DW8
10 feet:	T45DW10

T-45 Raceway Fittings

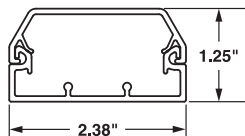|	
Cover coupler fitting:	T45CCIW-X
Outside corner fitting:	T45OCIW
Inside corner fitting:	T45ICIW
Right angle fitting:	T45RAIW
End cap fitting:	T45ECIW
Entrance end fitting:	T45EEIW
Bend radius control fitting:	T45TRI
Reducer fitting:	T45RLDIW
Tee fitting:	T45TIW
Insert for tee fitting:	T45TD

T-45 Raceway Accessories

Hinged data bracket:	T45HDBIW
Wire retainer:	T45WR-X
Workstation Outlet Center™ Offset box:	T45WCIW
Workstation Outlet Center™ Offset box:	T45WC2IW
Electrical bracket and box for duplex outlets:	T45HEBIW
Electrical bracket and box for rectangular outlets:	T45HEGBIW

For standard colors other than IW (Off White), replace IW in part number with EI (Electric Ivory). WH (White) is available in 8 foot lengths without adhesive only.

Pan-Way® T-45 Surface Raceway System

Wire Fill

T-45
Internal Area = 2.12 Sq. In.
1.25"
2.38"

Raceway Type & Configuration	Fill Area (in²)	Electrical Cables 14 AWG THHN/THWN/T90 0.111 MAX (UL Temp Rise Test)	12 AWG 0.130 MAX	10 AWG 0.164 MAX	Data Grade Cables 24 AWG Cat. 5e – Plenum DIA = 0.193 Fill SPEC (40%)	MAX (60%)	24 AWG Cat. 5e – Riser DIA = 0.225 Fill SPEC (40%)	MAX (60%)	24 AWG Cat. 6 and Cat. 6A (SD) DIA = 0.240 Fill SPEC (40%)	MAX (60%)	24 AWG Cat. 6A DIA = 0.300 Fill SPEC (40%)	MAX (60%)	Coax Cables RG6 DIA = 0.275 Fill SPEC (40%)	MAX (60%)	RG59/u DIA = 0.242 Fill MAX (40%)	MAX (60%)	Fiber Optic Cable 2 Strand DIA = 0.175 Fill SPEC (40%)	MAX (60%)
T-45: No Devices	2.13	36	27	25	29	43	21	32	18	28	12	18	14	21	18	27	35	53
T-45: No Devices with wire retainer	1.72	36	27	25	23	35	17	25	15	22	9	14	11	17	14	22	28	42
T-45: Power and data with wire retainer and divider wall (2 channels)	0.44	12	11	8	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	1.20	—	—	—	16	24	12	18	10	15	6	10	8	12	10	15	19	29
T-45: Power and data with wire retainer and two divider walls (3 channels)	0.44	12	11	8	6	9	4	6	3	5	2	3	2	4	3	5	7	10
	0.68	—	—	—	9	13	6	10	6	9	3	5	4	6	5	8	11	16
	0.44	—	—	—	6	9	4	6	3	5	2	3	2	4	3	5	7	10
T-45: Power and data using the Workstation Outlet Center™ Offset Box	0.41	12	11	8	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	1.06	—	—	—	14	21	10	15	9	14	5	8	7	10	9	13	17	26
T-45: Data only using data bracket	2.00	—	—	—	27	41	20	30	17	26	11	16	13	20	17	26	33	49
T-45 Power and Data using Hinged Data Bracket with Divider Insert	0.52	12	8	8	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	1.20	—	—	—	16	24	12	18	10	15	6	10	8	12	10	15	19	29
T-45: Power and Data Using Electrical Bracket and Box	0.22	9	4	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	0.50	—	—	—	6	10	5	7	4	6	2	4	3	5	4	6	8	12

T-45 Raceway

T45B

T45C

Fittings and Accessories

T45CC-X

T45OC
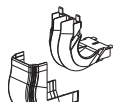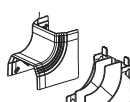
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T45RA

T45EC

T45EE

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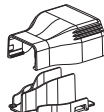
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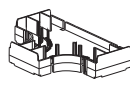
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T45T
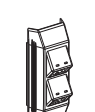
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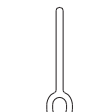
T45DW

T45WR-X
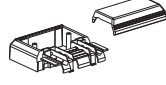
T45WC

T45WC2

T45HEB

T45HEGB

For more information
Visit us at www.panduit.com

Contact Customer Service by email: cs@panduit.com
or by phone: 800.777.3300