



PAN-WAY™ Twin-70 Surface Raceway System

PAN-WAY™ Twin-70 Surface Raceway is an aesthetically pleasing multi-channel raceway that provides separate covers for communications and power cabling channels. Fittings have been designed to maintain the TIA/EIA required 1" minimum bend radius of Category 5 and Fiber Optic cabling. The raceway is tamper resistant to the end user yet allows easy access to the installer for moves, adds and changes.

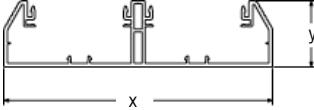
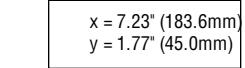
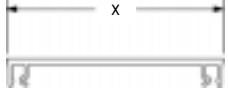
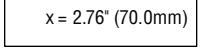
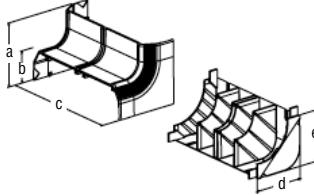
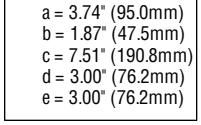
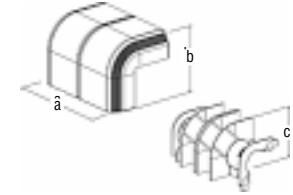
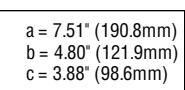
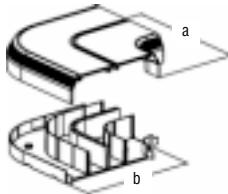
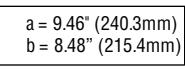
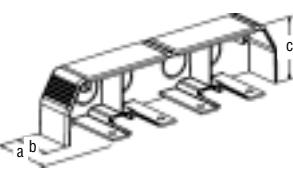
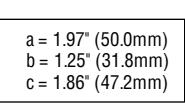
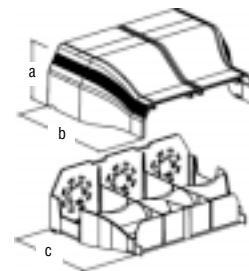
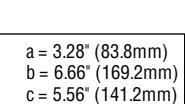
Twin-70 raceway is optimized for use with the **PAN-NET™** Network Cabling System to provide a totally integrated horizontal cabling solution for Category 5 UTP, ScTP, Coax, Fiber Optic and Power Cabling Systems.

Features

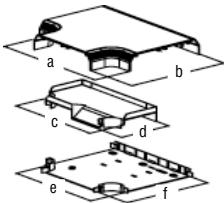
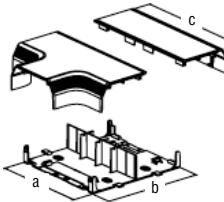
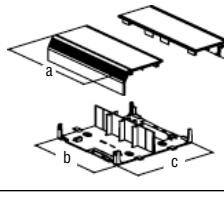
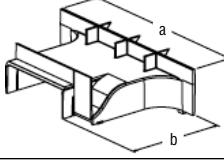
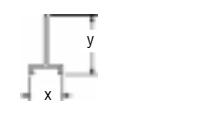
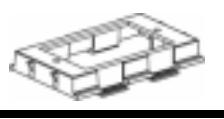
Advantages & Benefit

Separate Covers Throughout the System (including the fittings)	Maintains complete separation of power and data cabling systems	Provides maximum safety during installation and for moves, adds, and changes
1" Bend Radius Control Fittings	Cables in the raceway won't exceed the minimum 1" bend radius requirement and degrade performance	Maximizes headroom of high performance cabling systems, such as Gigabit Ethernet, Fast Ethernet, Fiber, and ATM
	Meets TIA/EIA Standards	Meets many warranty requirements
Snap-on Faceplates NO BOXES REQUIRED	Faceplates snap directly onto the raceway base eliminating the many parts (i.e. junction boxes, brackets, etc) normally required to mount communication connectors	Lowers the overall installed cost and the number of parts to inventory & buy
	Cabling can be quickly accessed by removing only one faceplate, unlike many current systems which require the removal of many parts	Speeds moves, adds, and changes. Requires less labor and lowers the cost of maintenance
Each channel has a 70mm opening	Accepts any NEMA standard power or communication faceplates	Works with other manufacturers' power and communication faceplates
UL-5A Listed	Meets the latest UL Listing requirements & can be used for power cabling up to 600V	Maximum safety for power systems, including tamper and impact resistance
Highly tamper resistant	Is very difficult for untrained personnel to enter the raceway or remove faceplates	Provides maximum security for the communication cabling and maximum safety for the power cabling
Non-Metallic Construction	Lightweight	Reduces installer fatigue. Allows for one person installation, reducing labor required to install the raceway
	Solid Color throughout	Will not chip, peel, rust or corrode. Masks scratches
	Easy to cut with standard saws and saw blades	Reduces installed cost and the need for special cutting devices
	High impact resistance	Extremely durable for a long life
	Easy to cut with standard saws and saw blades	Reduces installed cost and the need for special cutting devices
Designer Profile	Aesthetically pleasing	Applications vary from the classroom to the executive office
Available in 4 standard colors	Matches a wide variety of decors	

PANDUIT® PAN-WAY™ Twin-70 Surface Raceway Components

Drawing / Dimensions	Part Number	Color	Description	
	Twin-70 Raceway Base  x = 7.23" (183.6mm) y = 1.77" (45.0mm)	T702BIW8 T702BEI8 T702BIG8 T702BWH8	Off White Elec. Ivory Light Gray White	Raceway base for Twin-70 raceway. Supplied in eight (8) foot lengths. NOTE: When ordering ten (10) foot lengths insert 10 instead of 8 in the part number.
	Twin-70 Raceway Cover  x = 2.76" (70.0mm)	T702CIW8 T702CEI8 T702CIG8 T702CWH8	Off White Elec. Ivory Light Gray White	Tamper resistant raceway cover for use with Twin-70 raceway base. Supplied in eight (8) foot lengths. Two (2) feet of cover is required per one (1) foot of base. NOTE: When ordering ten (10) foot lengths insert 10 instead of 8 in the part number.
	Twin-70 Base Coupling	T70BCIW-X T70BCEI-X T70BCIG-X T70BCWH-X	Off White Elec. Ivory Light Gray White	For use with Twin-70 raceway base. Used to join two pieces of Twin-70 base together. Standard package quantity of 10.
	T-70 Cover Coupler	T70CCIW-X T70CCEI-X T70CCIG-X T70CCWH-X	Off White Elec. Ivory Light Gray White	For use with Twin-70 raceway cover. Used to join two pieces of Twin-70 cover together. Standard package quantity of 10.
	Inside Corner Fitting  a = 3.74" (95.0mm) b = 1.87" (47.5mm) c = 7.51" (190.8mm) d = 3.00" (76.2mm) e = 3.00" (76.2mm)	T702ICIW T702CEI T702CIG T702CWH	Off White Elec. Ivory Light Gray White	For use with Twin-70 raceway. Used to join Twin-70 raceway at inside corners. Maintains minimum 1" bend radius of cabling. Standard package quantity of 1.
	Outside Corner Fitting  a = 7.51" (190.8mm) b = 4.80" (121.9mm) c = 3.88" (98.6mm)	T702OIW T702OCEI T702OCIG T702OCWH	Off White Elec. Ivory Light Gray White	For use with Twin-70 raceway. Used to join Twin-70 raceway at outside corners. Maintains minimum 1" bend radius of cabling. Standard package quantity of 1.
	Right Angle Fitting  a = 9.46" (240.3mm) b = 8.48" (215.4mm)	T702RAIW T702RAEI T702RAIG T702RAWH	Off White Elec. Ivory Light Gray White	For use with Twin-70 raceway. Used to join sections of Twin-70 raceway to make horizontal 90° right angles. Maintains minimum 1" bend radius of cabling. Standard package quantity of 1.
	End Cap Fitting  a = 1.97" (50.0mm) b = 1.25" (31.8mm) c = 1.86" (47.2mm)	T702ECIW T702ECEI T702ECIG T702ECWH	Off White Elec. Ivory Light Gray White	For use with Twin-70 raceway. Used to terminate or to enter the raceway. Includes breakouts for 1/2" conduit. Standard package quantity of 1.
	Entrance End Fitting  a = 3.28" (83.8mm) b = 6.66" (169.2mm) c = 5.56" (141.2mm)	T702EEIW T702EEEI T702EEIG T702EEWH	Off White Elec. Ivory Light Gray White	For use with Twin-70 raceway. Used to enter the raceway through conduit. Includes 1/2", 3/4", 1", 1 1/4" and 1 1/2" concentric conduit breakouts. Maintains minimum 1" bend radius of cabling. Standard package quantity of 1.

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Drawing / Dimensions	Part Number	Color	Description	
	Tee Fitting a = 11.95" (303.5mm) b = 9.91" (251.7mm) c = 9.79" (248.7mm) d = 5.07" (128.8mm) e = 9.82" (249.4mm) f = 8.68" (220.5mm)	T702TIW T702TEI T702TIG T702TWH	Off White Elec. Ivory Light Gray White	For use with Twin-70 raceway. Used to join sections of Twin-70 raceway to form a "tee" junction. Maintains minimum 1" bend radius of cabling. Standard package quantity of 1.
	Transition Fitting a = 6.98" (177.3mm) b = 7.22" (183.4mm) c = 9.00" (228.6mm)	T702TRIW T702TREI T702TRIG T702TRWH	Off White Elec. Ivory Light Gray White	For use with Twin-70 raceway. Used to transition from Twin-70 raceway to an undivided T-70 raceway. Standard package quantity of 1.
	Transition Fitting a = 9.00" (228.6mm) b = 6.98" (177.3mm) c = 7.22" (183.4mm)	T702TRLIW T702TRLEI T702TRLIG T702TRLWH	Off White Elec. Ivory Light Gray White	For use with Twin-70 raceway. Used to transition from Twin-70 raceway to an undivided LD Profile raceway. Standard package quantity of 1.
	Transition Fitting Insert a = 6.95" (176.5mm) b = 3.62" (91.9mm)	T702TRI	Light Gray	For use with T702TR or T702TRL fittings. Used to transition from Twin-70 raceway to divided T-70 or LD2P10 raceway. Standard package quantity of 1.
	Divider Wall x = 0.75" (19.1mm) y = 1.34" (34.0mm)	T70DW8	Light Gray	Snaps onto rails in raceway base to create separate channels. Supplied in eight (8) foot lengths.
	Wire Retainer	T70WR-X	Light Gray	Holds wires in place. Will not interfere with cover installation. To add wire or cable, simply remove cover and loosen one side of retainer. Standard package quantity of 10.
	Device Bracket	T70DB-X	Light Gray	Used to quickly mount NEMA standard electrical receptacles (including GFCI) and screw mount communications faceplates in Twin-70 raceway. Standard package quantity of 10.

PAN-WAY™ Twin-70 Raceway — Technical Data

Material	Rigid PVC	COLOR CHOICES: Colors shown are approximate.		
Flammability	UL94V-0	IW	Off White (IW)—Matches International White color standard RAL9001	
		Off White		
Voltage Rating	UL-5A 600VAC CSA 22.2 No. 62-93 300VAC	EI	Electrical Ivory (EI)—Matches NEMA and Lucent Electrical ivory color	
		Elec. Ivory		
Approvals	UL Listed E95425 (raceway) UL Listed E116129 (fittings)	IG	Light Gray (IG)—Matches International Gray color standard RAL7030	
		Lt. Gray		
NEC	Article 352B	WH	White (WH)—Panduit standard bright white color	
		White		

PANDUIT® PAN-WAY™ Twin-70 Surface Raceway Components

Drawing / Dimensions	Part Number	Color	Description
	Snap-On Bezel T70BH1IW T70BH1EI T70BH1IG T70BH1WH	Off White Elec. Ivory Light Gray White	For use with Twin-70 raceway. Used to mount a single 1/2 style insert on Twin-70 raceway in a horizontal run. Standard package quantity of 1.
	Snap-On Bezel T70BH2IW T70BH2EI T70BH2IG T70BH2WH	Off White Elec. Ivory Light Gray White	For use with Twin-70 raceway. Used to mount two 1/2 style insert on Twin-70 raceway in a horizontal run. Standard package quantity of 1.
	Snap-On Bezel T70B1IW T70B1EI T70B1IG T70B1WH	Off White Elec. Ivory Light Gray White	For use with Twin-70 raceway. Used to mount a single 1/2 style insert on Twin-70 raceway in a vertical run. Standard package quantity of 1.
	Snap-On Bezel T70B2IW T70B2EI T70B2IG T70B2WH	Off White Elec. Ivory Light Gray White	For use with Twin-70 raceway. Used to mount two 1/2 style insert on Twin-70 raceway in a vertical run. Standard package quantity of 1.
	Snap-On Faceplate T70PGIW T70PGEI T70PGIG T70PGWH	Off White Elec. Ivory Light Gray White	For use with Twin-70 raceway. Used to mount rectangular electrical outlets on Twin-70 raceway. Standard package quantity of 1.
	Snap-On Faceplate T70PIW T70PEI T70PIG T70PWH	Off White Elec. Ivory Light Gray White	For use with Twin-70 raceway. Used to mount duplex electrical outlets on Twin-70 raceway. Standard package quantity of 1.

Installation of Faceplates into TWIN-70 Raceway



Snap the device bracket into the slot on the raceway wall and then into the slot on the divider wall.

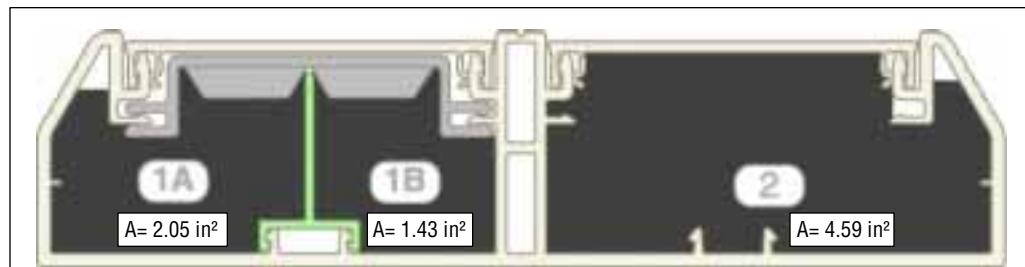
Install the electrical outlet onto the device bracket.

Snap-on the electrical faceplate over the electrical outlet, and snap-on the communication faceplate over the data channel.

Complete the installation by snapping in the **MINI-COM®** Inserts for your voice and data communication requirements.

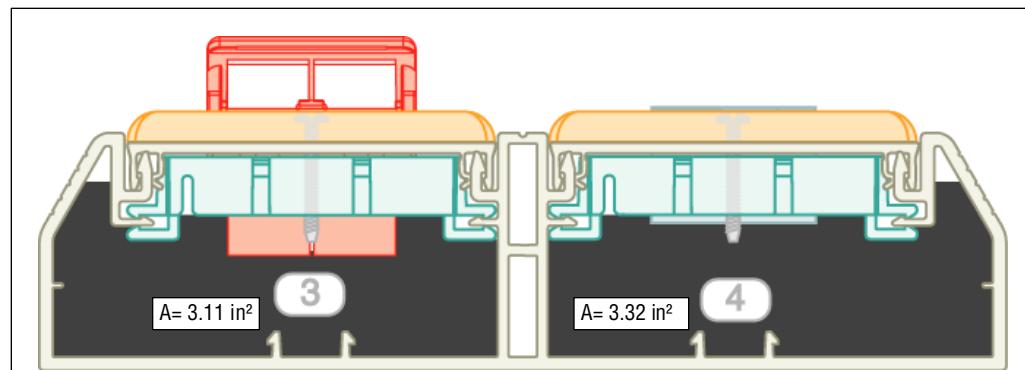
Fill Capacities for Twin-70 Raceway

This information is to be used as a guide in selecting the proper size raceway. The maximum amounts may vary according to the wire installation methods, straightness of wires, etc.



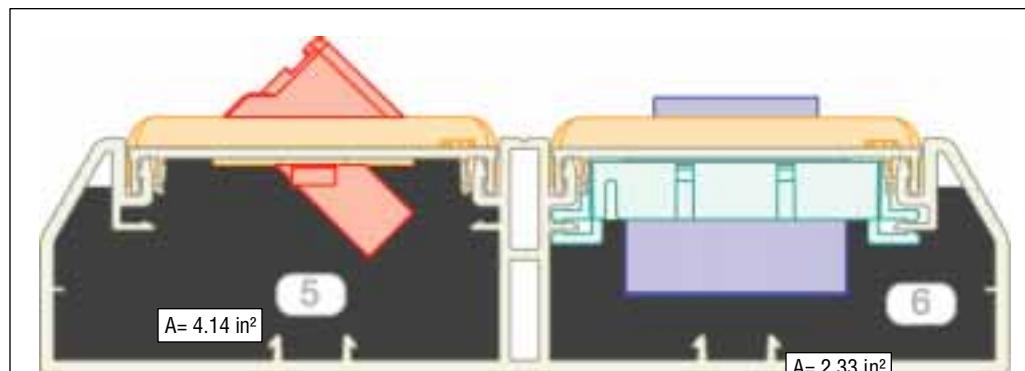
Wirefill #1: Power & Data with No Terminations
Includes: Divider Wall & Wire Retainer

Wirefill #2: One Twin-70 Channel with No Devices



Wirefill #3: Data Only using Device Bracket & "Screw-On" Faceplates
Includes: Device Bracket, CB Vertical Screw-On Faceplate, Sloped Insert and Modules

Wirefill #4: Power using Device Bracket & "Screw-On" Faceplates
Includes: Device Bracket, CP Faceplate, Standard Duplex Electrical Outlet



Wirefill #5: Data Only using "Snap-On" Faceplate
Includes: T70BH2 Snap-On Faceplate, Sloped Insert and Modules

Wirefill #6: TVSS Power Outlet using Device Bracket & "Snap-On" Faceplate
Includes: Device Bracket, T70P Faceplate, Transient Suppression Voltage Receptacle

Fill Capacities for Twin-70 Raceway

This information is to be used as a guide in selecting the proper size raceway. The maximum amounts may vary according to the wire installation methods, straightness of wires, etc.

SPEC=40% wirefill—the recommended design in cable capacity. Leaves room for future moves, adds and changes

MAX=60% wirefill—the maximum cable quantity based on cable interweaving and packing factors or UL temperature rise test for electrical

Fill Capacity Table for: -Electrical -Voice Grade 24 AWG UTP -Data Grade 24 AWG UTP

Raceway Channel Configurations	See Wirefill #	Electrical Cables			Voice Grade Cables				Data Grade Cables					
		AWG			24 AWG UTP CM/CMR				24 AWG UTP CM					
		14	12	10	2 pr	3 pr	4 pr	25 pr	Cat. 5 4 pr					
		THHN/T90		DIA.= 0.120	DIA.= 0.150	DIA.= 0.190	DIA.= 0.422	DIA.= 0.217						
		0.105	0.122	0.153	FILL		FILL		FILL		FILL		FILL	
		MAX	MAX	MAX	SPEC	MAX	SPEC	MAX	SPEC	MAX	SPEC	MAX	SPEC	MAX
Wirefill #1: Power & Data No Terminations	1A	n/a	n/a	n/a	73	109	46	70	29	43	6	9	22	33
	1B	16	16	15	51	76	32	49	20	30	4	6	15	23
Wirefill #2: One Twin-70 Channel with No Devices	2	n/a	n/a	n/a	162	244	104	156	65	97	13	20	50	75
Wirefill #3: Data Only using Device Bracket & Screw-On Faceplates	3	—	—	—	110	165	70	106	44	66	9	13	34	50
Wirefill #4: Power using Device Bracket & Screw-On Faceplates	4	15	13	13	117	176	75	113	47	70	9	14	36	54
Wirefill #5: Data Only using Snap-On Faceplates	5	—	—	—	146	220	94	141	58	88	12	18	45	67
Wirefill #6: TVSS Power Outlet using Device Bracket & Snap-On Faceplate	6	16	16	14	82	124	53	79	33	49	7	10	25	38

Fill Capacity Table for: -Data Grade 22 AWG UTP -Data Grade 24, 22 AWG STP - 1A STP

Raceway Channel Configurations	See Wirefill #	Data Grade Cables															
		24 AWG STP CM				22 AWG UTP CM				22 AWG STP CM							
		25 pr	4 pr	25 pr	4 pr	25 pr	4 pr	25 pr	4 pr	1A 22 AWG STP CM							
		DIA.= 0.512	DIA.= 0.250	DIA.= 0.544	DIA.= 0.234	DIA.= 0.635	DIA.= 0.286										
		FILL		FILL		FILL		FILL									
		SPEC	MAX	SPEC	MAX	SPEC	MAX	SPEC	MAX								
Wirefill #1: Power & Data No Terminations	1A	4	6	17	25	4	5	19	29	3	4	13	19	6	8		
	1B	3	4	12	17	2	4	13	20	2	3	9	13	4	6		
Wirefill #2: One Twin-70 Channel with No Devices	2	9	13	37	56	8	12	43	64	6	9	29	43	13	19		
Wirefill #3: Data Only using Device Bracket & Screw-On Faceplates	3	6	9	25	38	5	8	29	43	4	6	19	29	9	13		
Wirefill #4: Power using Device Bracket & Screw-On Faceplates	4	6	10	27	41	6	9	31	46	4	6	21	31	9	14		
Wirefill #5: Data Only using Snap-On Faceplates	5	8	12	34	51	7	11	39	58	5	8	26	39	11	17		
Wirefill #6: TVSS Power Outlet using Device Bracket & Snap-On Faceplate	6	5	7	19	28	4	6	22	33	3	4	15	22	6	10		

Fill Capacities for Twin-70 Raceway

This information is to be used as a guide in selecting the proper size raceway. The maximum amounts may vary according to the wire installation methods, straightness of wires, etc.

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MAX=60% wirefill—the maximum cable quantity based on cable interweaving and packing factors or UL temperature rise test for electrical

Raceway Channel Configurations			See Wirefill #	Coax Cables									
				RG6/u		RG11/u		RG58/u		RG59/u		RG62A/u	
				DIA.=0.270		DIA.=0.405		DIA.=0.193		DIA.=0.242		DIA.=0.242	
				FILL		FILL		FILL		FILL		FILL	
				SPEC	MAX	SPEC	MAX	SPEC	MAX	SPEC	MAX	SPEC	MAX
Wirefill #1: Power & Data No Terminations			1A	14	21	6	10	28	42	18	27	18	27
			1B	10	15	4	7	20	29	12	19	12	19
Wirefill #2: One Twin-70 Channel with No Devices			2	32	48	14	21	63	94	40	60	40	60
Wirefill #3: Data Only using Device Bracket & Screw-On Faceplates			3	22	33	10	14	43	64	27	41	27	41
Wirefill #4: Power using Device Bracket & Screw-On Faceplates			4	23	35	10	15	45	68	29	43	29	43
Wirefill #5: Data Only using Snap-On Faceplates			5	29	43	13	19	57	85	36	54	36	54
Wirefill #6: TVSS Power Outlet using Device Bracket & Snap-On Faceplate			6	16	24	7	11	32	48	20	30	20	30

Raceway Channel Configurations			See Wirefill #	Fiber Optic Cables (62.5/125mm)						Signal Cables					
				2 Strand		4 Strand		6 Strand		18AWG		20 AWG		22 AWG	
				DIA.=0.175		DIA.=0.175		DIA.=0.210		DIA.=0.066		DIA.=0.057		DIA.=0.050	
				FILL		FILL		FILL		FILL		FILL		FILL	
				SPEC	MAX	SPEC	MAX	SPEC	MAX	SPEC	MAX	SPEC	MAX	SPEC	MAX
Wirefill #1: Power & Data No Terminations			1A	34	51	34	51	24	36	240	360	322	482	418	627
			1B	24	36	24	36	17	25	167	251	224	336	291	437
Wirefill #2: One Twin-70 Channel with No Devices			2	76	115	76	115	53	80	537	805	720	1080	936	1403
Wirefill #3: Data Only using Device Bracket & Screw-On Faceplates			3	52	78	52	78	36	54	364	546	488	732	634	951
Wirefill #4: Power using Device Bracket & Screw-On Faceplates			4	55	83	55	83	38	58	388	583	521	781	677	1015
Wirefill #5: Data Only using Snap-On Faceplates			5	69	103	69	103	48	72	484	726	649	974	844	1266
Wirefill #6: TVSS Power Outlet using Device Bracket & Snap-On Faceplate			6	39	58	39	58	27	40	273	409	365	548	475	712

Raceway Cutting Instructions:

For small quantities, use a fine tooth handsaw. For larger quantities use a plastic cutting saw blade for clean burr-free cuts. Recommend: *Carbide 80T or 100T, .090" thickness, .125" kerf.*

PANDUIT® PAN-WAY™ Twin-70 Surface Raceway Components



PAN-WAY™ Twin-70 Surface Raceway System is part of a complete line of PANDUIT Surface Raceway Products



PAN-WAY Surface
Raceway System
SA101N60A



Wiring Duct and Fiber Optic
Duct System
SA101N64B



Condensed Full Line
Electrical Catalog
SA101N13J

Our products are warranted to be free from defects in material and workmanship at the time of sale but our obligation under this warranty is limited to the replacement of any product proved to be defective within 6 months (for product) or 90 days (for tools) from the date of delivery. Tool warranty is void if Panduit tools are modified, altered or misused in any way. Use of Panduit tooling with any product other than the specified Panduit products for which the tool was designed, constitutes misuse. Before using, user shall determine the suitability of the product for his intended use and user assumes all risk and liability whatsoever in connection therewith.

This warranty is made in lieu of and excludes all other warranties, expressed or implied. THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR USE ARE SPECIFICALLY EXCLUDED. Neither seller nor manufacturer shall be liable for any other injury, loss or damage, whether direct or consequential, arising out of the use of, or the inability to use, the product. The information contained in this literature is based on our experience to date and is believed to be reliable. It is intended as a guide for use by persons having technical skill at their own discretion and risk. We do not guarantee favorable results or assume any liability in connection with its use. Dimensions contained herein are for reference purposes only. For specific dimensional requirements consult the factory. This publication is not to be taken as a license to operate under, or a recommendation to infringe any existing patents. This supersedes and voids all previous literature, etc.



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Данный компонент на территории Российской Федерации**Вы можете приобрести в компании MosChip.**

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<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибуторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ Р В 0015-002 и ЭС РД 009

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