

FIBER RACEWAY CABLE TRAY

INTEGRATED SOLUTIONS FOR DATA CENTERS





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A DEDICATED PATH FOR AN EFFICIENT INSTALLATION

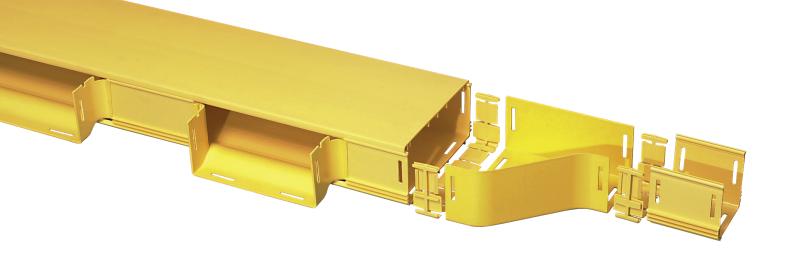


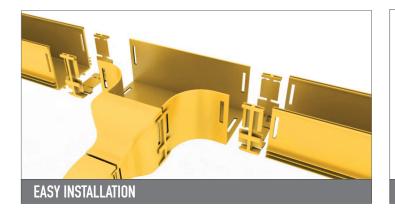
The Legrand Group boosts its offer for data centers with its innovative LCS³ Fiber Raceway system! Dedicated to digital data distribution, the Fiber raceway cable tray is the ideal solution to ensure an optimal optical fiber cabling and a highly efficient network at all times.

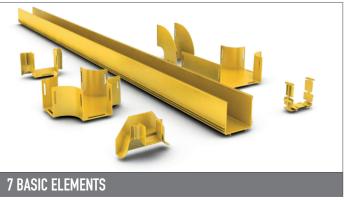
Around half of today's network problems are caused by inadequate cabling infrastructure. With Fiber Raceway, you are sure to benefit from a reliable, durable and scalable infrastructure enabling you to efficiently isolate and protect your fiber optic cables! Besides, Fiber Raceway is a flexible and modular system that allows work to be done quickly on the network with minimal disconnection times.

FIVE IMPORTANT SALES ARGUMENTS

AT A GLANCE FOR USING FIBER RACEWAY







1. CABLE MANAGEMENT SYSTEM

With the strong growing demand of fibers, fiber cords need to be segregated from copper services and routed in an enclosed duct raceway system, fulfilling following demands:

- bright distinctive duct color: Yellow
- protection against compression
- protection against bend radius
- available sizes 50 mm, 100 mm, 220 mm, 300 mm and 600 mm

2. MEETS IMPORTANT STANDARDS

- Low smoke Zero Halogen, selfextinguishing. Avoiding risk of harming staff and transmission equipment
- UL94-V-0 (50 mm UL94-V-1) rated
- ROHS Compliant
- UL2024A Standard rated

3. EASY & TIME SAVING INSTALLATION

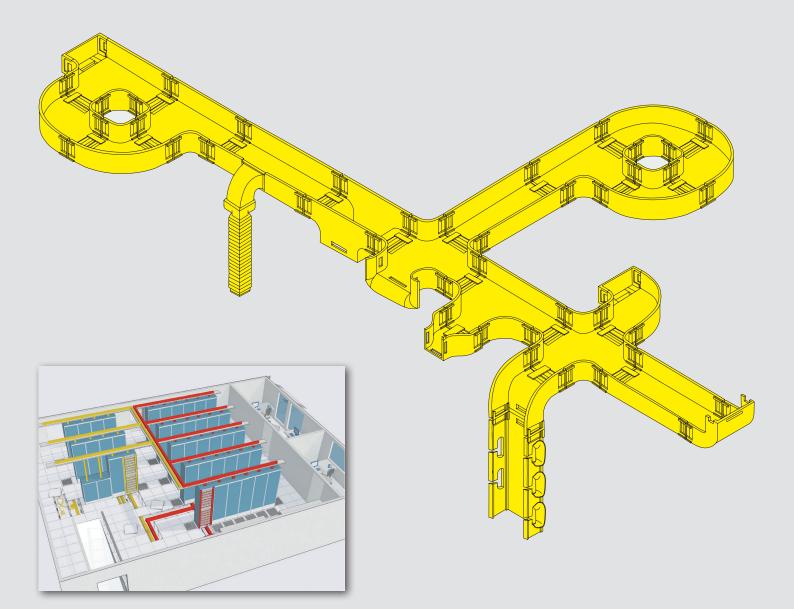
Pre-slotted duct and accessories simply snap together with slotted or slotless joiners, express outlets, break out kits.

4. ZERO DOWN TIME

Fiber Raceway can easily be changed or extended without the need to remove the existing fiber or shut down.

5. FULLY RECYCLABLE

The granulate Noryl used for Fiber Raceway is fully recyclable (Cradle to cradle). Very important issue for future datacenters.



Program

Duct size (mm)		50x50			100x100)	:	220x100)	;	300x10()	(600x10(ט
Optical cable size (mm)	3	2-2.4	1.6-2	3	2-2.4	1.6-2	3	2-2.4	1.6-2	3	2-2.4	1.6-2	3	2-2.4	1.6-2
Straight duct	120	155	265	500	700	1200	1100	1500	2500	1500	2100	3600	3000	4200	7200
Over-the-top outlet	100	120	200	300	400	700	-	-	-	-	-	-	-	-	-
Duct with ramp-off	-	-	-	300	400	700	720	1000	1700	-	-	-	-	-	-
Vertical tee-straight-through	-	-	-	500	700	1200	300	400	700	-	-	-	-	-	-
Vertical tee-downspout-drop	-	-	-	500	700	1200	500	700	1200	-	-	-	-	-	-
Convoluted tubing	Spl	it 200m	m Ø	Sp	lit 38mr	n Ø	Sp	lit 50mn	n Ø	503	x50 squ	are			
Optical cable size (mm)	3	2-2.4	1.6-2	3	2-2.4	1.6-2	3	2-2.4	1.6-2	3	2-2.4	1.6-2			
Tubing capacity	10	12	20	24	30	50	60	80	135	120	155	265			

Capacity

The capacity listed above is recommended to ensure no damages will occur to the cords due to crushing. This is not the number of optical fiber cords that Fiber Raceway will accommodate if completely filled.

Selecting the Ducting - Raceway size

Fiber Raceway is available in five sizes. It is most important to select a size that allows for expansion and future additions to the ducting system.

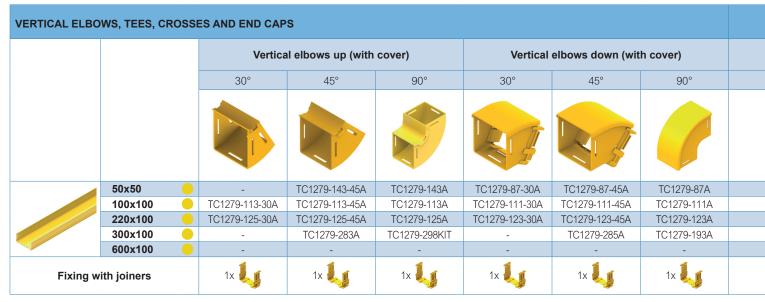
All too often, cable systems are underspecified in order to reduce installation costs. In this world of the ever increasing need for the storage and processing of data, it is false economy to just specify for existing needs. It is ultimately most cost-effective to provide for the future and over-specify when it comes to capacity.

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configure your system

SOLID DUCTS, JOINERS AND HORIZONTAL ELBOWS							
		Solid ducts	Solid ducts with cover	Slotted joiners	Slottin	ig tools	
		Length 2000mm	Length 2000mm	Tool required	Hand-operated	Foot-operated	
						1 ANA	
	50x50 🔶	TC1279-81	TC1279-81XA	TC1279-73	TC1279-118	-	t
	100x100 🔶	TC1279-23	TC1279-23ASN	TC1279-27			Т
	220x100 🔶	TC1279-21	TC1279-21ASN	TC1279-25	TC1279-51	TC1279-500KIT	
	300x100 🔶	TC1279-275	TC1279-275A	TC1279-320KIT			
	600x100 🔶	TC1279-406NS	-	-	-	-	
Fixing with joiners		1x 🚺	1x 🚺				

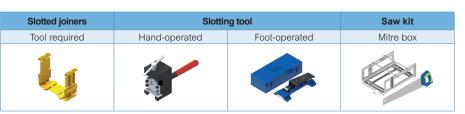


1 : Vertical 220mm drop-off module in a 300mm horizontal duct

Ducting joiner options

The Fiber Raceway system has 2 option methods for joining the components together: slotted joiners or slotless joiners.

Slotted joiners require the ducting components to have slots on the ends so that it can be properly joined by clicking into place. A slotting tool will be required.



Note: For straight ducting Fiber Raceway that has been cut to length, new slots need to be made with a suitable size slotting tool.

Slotless joiners	Saw kits	Horizontal elbows (with cover)					
No slotting tool required	Mitre box	30°	45°	90°			
	0						
-	TC1279-118-07	TC1279-77-30A	TC1279-77-45A	TC1279-77A			
TC1279-248A		TC1279-47A	TC1279-31-45A	TC1279-31A			
TC1279-250A	TC1279-MITRE	TC1279-45A	TC1279-29-45A	TC1279-29A			
TC1279-287A		-	TC1279-304A	TC1279-387A			
TC1279-410A	-	-	TC1279-414	TC1279-411A			
No slotting tools required		1x ڸ	1x ڸ	1x 🔱			

Horizontal tees	Vertical tees	Crosses	Transforming crosses	End	caps
With cover	With cover	With cover	With cover	Slotted	Slotless
TC1279-75A	TC1279-145A	TC1279-139A	-	TC1279-127	-
TC1279-03A	TC1279-63A	TC1279-71A	TC1279-65A (100x100 to 220x100)	TC1279-57	TC1279-251
TC1279-01A	TC1279-11A	TC1279-61A	TC1279-331A (220x100 to 300x100)	TC1279-56	TC1279-252
TC1279-279A	TC1279-277A ⁽¹⁾	TC1279-300A	TC1279-396A (300x100 to 100x100)	-	TC1279-288
TC1279-412	-	TC1279-416	-	TC1279-435	-
2x 🔱	2x 🔱	2x ڸ	2x 🔰 note: different width	1x 🚺	

Slotless joiners require no additional tool, nor for slots to be made on the side of the duct. They only require a screwdriver for installation to tighten the joiner into place.

Slotless joiners	Saw kit	
No slotting tool required	Mitre box	Screwdriver
	0	

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configure your system (continued)

REDUCERS, SUPPORT BRACKETS AND OUTLETS Reducers with cover Reducers with cover Duct end support brackets							
		Reducers with cover			Duct end support brackets		
			Left hand	Right hand			
	50x50 🔶	TC1270.014 (50-50, 400-400)			TC1279-127F		
	100x100 🔶	TC1279-91A (50x50 - 100x100)		T01070.054	TC1279-57D		
	220x100 🔶	_	TC1279-07A (100-220x100)	TC1279-05A (100x100 - 220x100)	-		
	300x100 🔶	TC1279-281A (300-220x100)	-	-	-		
	600x100 🔶	TC1279-408 (300-600x100)	-	-	-		
Fixing wi	th joiners	1x 🚺	1x 👢	1x 👢 👔	-		

DROP-OFF SOLU	DROP-OFF SOLUTIONS, HIGH CAPACITY DUCT OUTLETS AND TUBES							
		Fiber drop-off solutions		High capacity duct outlets				
		See conduit 50mm	See square conduit	Without convoluted tube	With convoluted tube			
		<i>(</i>			r			
	50x50 • 100x100 • 220x100 • 300x100 •	TC1279-41KIT	TC1279-89KIT	- TC1279-452A TC1279-454A -	- TC1279-452KIT TC1279-454KIT -			
	600x100 🔶	-	-	-	-			
Fixing w	ith joiners	-	-	1x 🚺	-			

BRAND ADAPTC	DRS					
			ADC/Cor	nmScope		
		ADC 4" -100x100	ADC 6" 100-100 LH	ADC 6" 100-100 RH	ADC 6" 220-100 LH	
	50x50 🔶	-	-	-	-	
	100x100 🔶	TC1279-109KIT	TC1279-473KIT	TC1279-472KIT	-	
	220x100 🥚	-	-	-	TC1279-149KIT	
	300x100 🔶	-	-	-		
	600x100 😑	-	-	-	-	

1: Fiber Raceway tubing is used for feeding entering or exiting fibers from the ducting raceway into equipment racks. Tubes are convoluted or ribbed to allow adjustment if drops cannot be positioned exactly over or under equipment. Some are available with removable covers, or split for ease of cable installation.

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	Over-the-top outlets			
50x50 down	100x100 down	100x100 horizontal		
TC1279-531ASL	TC1279-307ASL	TC1279-290ASL	TC1279-93A TC1279-218A TC1279-330A TC1279-379A	
-	-	-	1x 🚺	

Cut-out jig	Tubing ⁽¹⁾					
	Conduit 50mm	Square 50x50 (L: 350mm)	Square openable (L: 350mm)			
TC1279-483A	TC1279-26Y (1 m) TC1279-53Y (2 m)	TC1279-85YEL	TC1279-85KIT			
-	Use with: TC1279-41KIT	Use with: TC1279-89KIT	Use with: TC1279-89KIT			

ADC/Co	mmScope	Panduit		
ADC 6" 220-100 RH ADC 12" 300-100		6" - 220x100 LH	6" - 220x100 RH	
-	-	-	-	
-	-	-	-	
TC1279-150KIT	-	TC1279-487KIT	TC1279-486KIT	
TC1279-327KIT		-	-	
-	-	-	-	

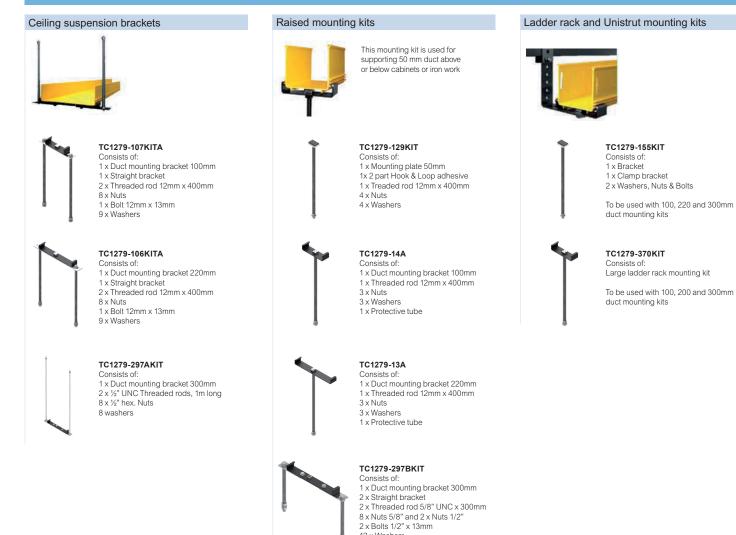
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configure your system (continued)

SUSPENSION B	RACKETS					
		Cabinet suspension kits		Ceiling suspension kits		
		Raised mounting kit	C-clamp	Ladder rack mounting kit	Ceiling suspension bracket	Duct mounting brackets
				and the second sec		
	50x50	TC1279-129KIT	347279	-	-	CLIP2-50
	100x100	TC1279-14A	347280	TC1279-155KIT	TC1279-107KITA	TC1279-16MH
	220x100	TC1279-13A	347283	TC1279-155KIT	TC1279-106KITA	TC1279-15MH
	300x100	TC1279-297BKIT	347283	TC1279-370KIT	TC1279-297AKIT	TC1279-297MH
	600x100	-	-	-	-	TC1279-438KIT

MOUNTING SOLUTIONS



12 x Washers

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threaded rod suspensions

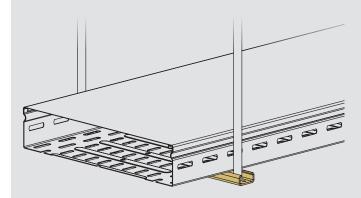
5						••••••• •••••••	00570070070000000000000000000000000000		
348049		343930	345200		3437	70		348576	
Pack	Cat.Nos	Rails		Pack	Cat.Nos	Threa	ded rods		
	SEND	Trapeze suspension M10/M12				Туре	Length	Max. load	
		Perforating distance: 15mm		1	8234206	M6	3000 mm	2000 N	A
		R21S 41x21x1,5		1	8234008	M8	1000 mm	3000 N	
		Length		1	8234108	M8	2000 mm	3000 N	
1	348042	200 mm		1	8234208	M8	3000 mm	3000 N	
1	348043	300 mm		1	8234000	M10	1000 mm	5800 N	
1	348044	400 mm		1	8234100	M10	2000 mm	5800 N	0
1	348045	500 mm		1	8234200	M10	3000 mm	5800 N	
1	348046	600 mm	200			I	· · ·		
1	348047	700 mm				Exter	ision / Roo	d couplers	
1	348040	1000 mm	·				Туре	Max. load	
1	348041	2000 mm		1	8234508	Μ	18 x 30	3000 N	
1	342180	3000 mm		1	8234500	M	10 x 30	3000 N	
		R21SP 41x21x2		1	0204000	IVI		000011	
1	348049	3000 mm	<						
			00000000						
			4000			Flathe	ad bolts		
			7	1	8200100	M6 x 1	0		Õ
		Rail struts		1	8713071	M8 x 1			Ĩ
1	343610				0110011				9
		Profile R41SP 41x41x 1,5				Flang	e nuts		
1	343930	Length 3000 mm		1	8200200	M6			P
1	245200	Profile R41SP 41x41x 2 Length 3000 mm		1	CM801211	M8			
1	345200	Profile R41S 41x41x 2.5		1	CM801221	M10			
1	345260								
		Profile R41S 41x41x 2.5					gonal nuts	•	
1	343770			1	8019908				P
		Profile R41DP 41x82x2,5		1	8313060				
		Protection end caps		1	8200300	M10			
1	348576	Profile R21S/R21SP	n II			Wash	ers		
1	348577	Profile R41S/R41SP		1	8200800	M6 (6,4	4 x 18 x 1,6	mm)	0
			×				6 x 22 x 2 m		
		Profile covers		1	8313029		4 x 20 x 1,5		
		Length 3000m		1			4 x 25 x 2 m	,	
1	SC952	For 41mm rail	3000	1			0,5 x 21 x 2		
1	SC953	r	*	1			0,5 x 30 x 2		
	20900	i vi Z IIIIII I all		1			0,5 x 40 x 2		

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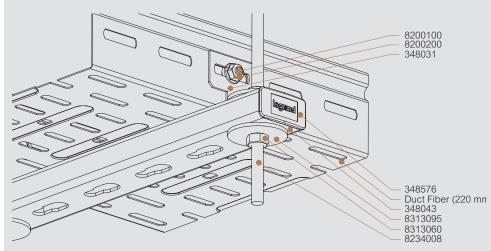
installation example and mounting instructions

Installation example with rail R21S / R21SP

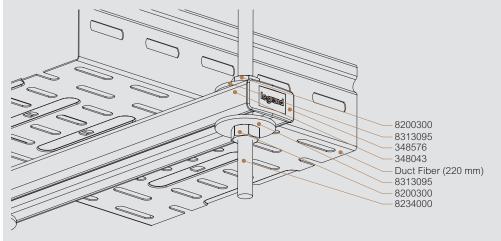


Mounting instructions on rail R21S

Option 1: Profile top \Box



Option 2: Profile down ⊔



Legrand Fiber Raceway threaded rod suspensions (continued)

Width 350800 50 mm

350810 100 mm 350820 150 mm

350830 200 mm

350840 300 mm

350850 400 mm

350860 500 mm 350870 600 mm

M6 801951 M8

801941

801961 M10

801971 M12

Channel nuts E41

To be used for mounting on R21 and R41 C-Profiles

1 1

1

1

1

1 1

1

1

1

1 1



Pack	Cat.Nos	C-bracket / ceiling supports 600N	Pack	Cat.Nos	Universal ceiling support
	SEND	Height 156mm Fiber Raceway outside width = Width + 2cm	1	8232000	1500N
		Width			Ceiling support straight
1	347279	75 mm	1	8232100	2500N
1	347280	100 mm		0202.00	
1	347281	150 mm (for Fiber Raceway 100mm)			
1	347282	200 mm			Flange clamps 1500N
	347283	300 mm	1	8232400	Flange thickness 3-7mm
1		(for Fiber Raceway 220mm)	1	8232500	Flange thickness 7-13mm
1	347284	400 mm	1	8232600	Flange thickness 13-20mm
		for Fiber Raceway 300mm)			
		CB consoles 800-2000N			Adjustable headplate for R21S
		Height 72-137mm	1	348030	6000N
		In combination with R21S/R41S(P), use 1x M8*16mm flathead bolt, nut and washer			Not suitable for R21SP rails

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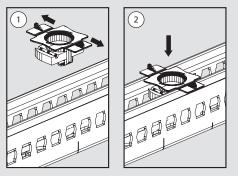
Legrand Fiber Raceway

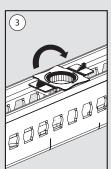
Adjustable headplate for rails R21S

technical characteristics

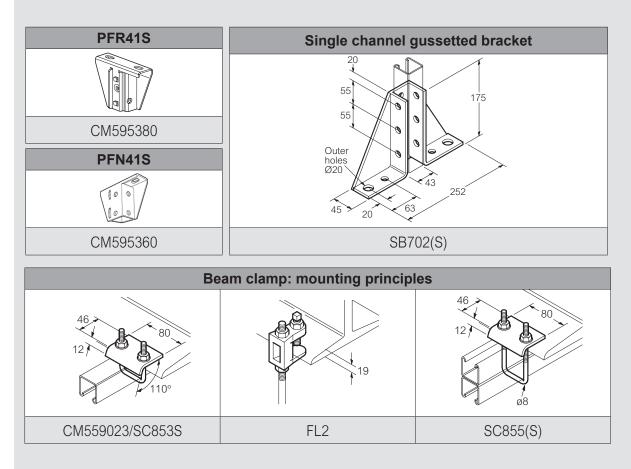
(not suitable for R21SP) Installation on sloping ceiling Adjustable from -30° to +30° Installation on straight Profile ceiling R21S 4 4 R21SP _ R41S 4 U60 4 6

Channel nut E41





For our full range, please see main catalogues of our cable management offer



Legrand Fiber Raceway

tooling components

Foot-operated slotter - TC1279-500

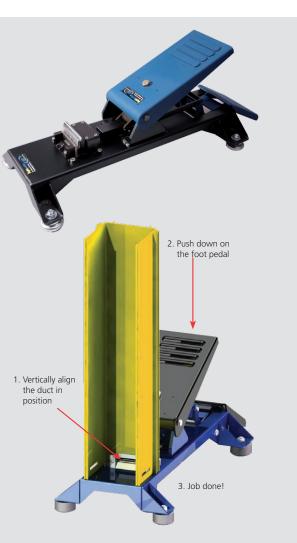
The foot-operated duct slotting tool is a means of making duct end slots easily, accurately and quickly in less than 1 minute to slot one end of a duct. By using a foot-operated system, a small effort is required to exert the large force necessary to make a slot. Both hands are free to hold the duct. The jaws are made of hardened carbon steel, for a long service life. To operate, place duct side or end within the tools cutting guides, hold duct down flush with top face of tool, and press foot-operated lever until a slot is made. Release the slotting punch, using the foot-operated release pedal. Remove and reposition duct for next slot. The slotting tool cuts a slot in the duct end to suit a standard joiner (Cat.Nos TC1279-25, TC1279-27 and TC1279-320KIT): available separately. The kit includes one foot-operated slotting tool and a metal tool box, for storage and transport, c/w a foam insert.

Features:

- For making duct end slots easily, accurately, simply, quickly and repeatedly
- Tool made from materials to ensure a long, reliable service life
- Tool has a lifting handle
- Metal tool box (for storage and transport, c/w foam insert) included

Slots the following duct sizes:

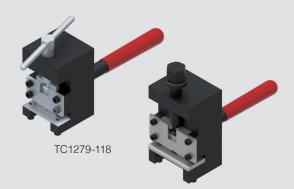
Duct size	Cat.Nos			
100x100mm	TC1279-23			
220x100mm	TC1279-21			
300x100mm	TC1279-275			



Hand-operated slotters - TC1279-118 & TC1279-51







TC1279-51

The slotting tool is used to make a small slot at the bottom and on both sides at the ends of duct. This process is a simple mechanical means of preparing a shortened length duct for connection to another standard part: e.g. elbow, cross connector, tees, adaptor assembly, duct end or drop offs, etc.

Cat.Nos	Description
TC1279-51	For 220x100mm, 300x100mm and 100x100mm ducts
TC1279-118	For 50mm ducts



La legrand®

EMB Electrical Industries S.A.E.

Headquarter office

Pyramids Heights Office Park KM 22 Cairo - Alex. desert road Building 1B, 12556 Tel.: +202 3536 0000 Fax: +202 3536 0001 www.legrand.eg