



FIBRE RACEWAY

CABLE DUCTING

INTEGRATED SOLUTIONS FOR DATA CENTRES



A DEDICATED PATH

FOR AN EFFICIENT INSTALLATION

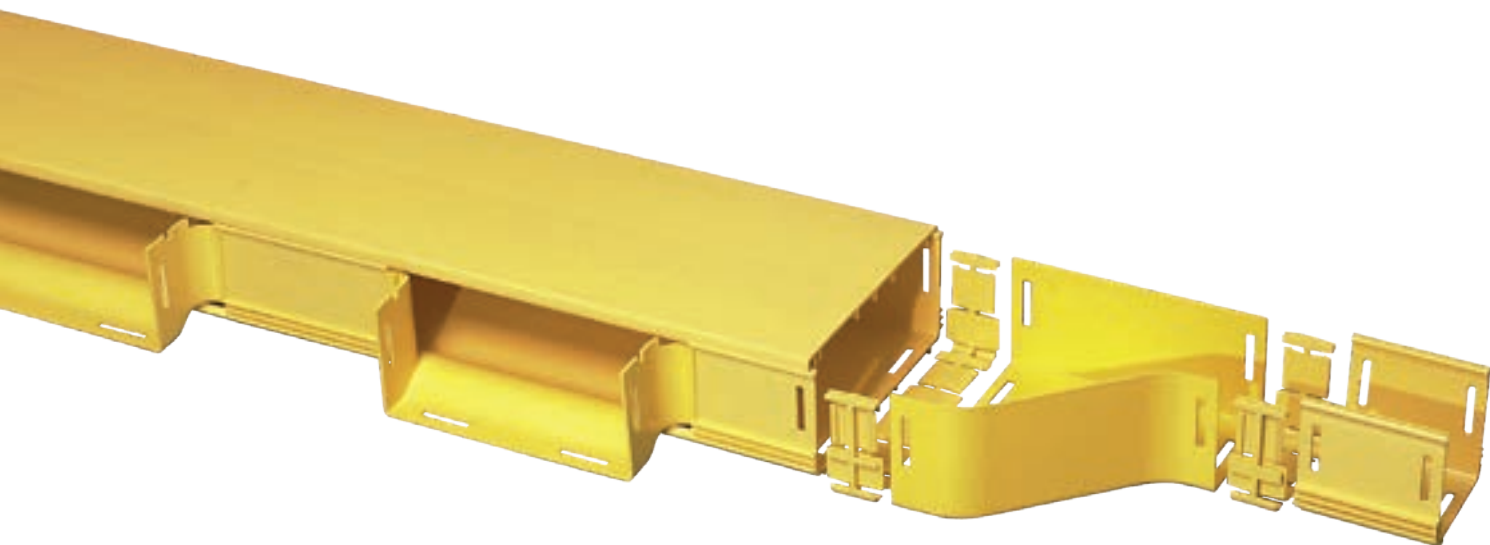


The Legrand Group boosts its offer for data centres with its innovative fibre raceway system. Dedicated to digital data distribution, the fibre raceway cable tray is the ideal solution to ensure an optimal, optical fibre cabling and a highly efficient network at all times.

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

FIVE IMPORTANT REASONS

FOR USING FIBRE RACEWAY



EASY INSTALLATION



7 BASIC ELEMENTS

1. CABLE MANAGEMENT SYSTEM

With the strong growing demand of fibres, fibre cords need to be segregated from copper services and routed in an enclosed duct raceway system. The benefits of this system include:

- A bright yellow distinctive duct colour
- Protection against compression
- Protection against bend radius
- Raceway is available in 50, 100, 220, 300 and 600 mm

2. MEETS IMPORTANT STANDARDS

- Low Smoke Zero Halogen (LSZH) and self-extinguishing to avoid 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

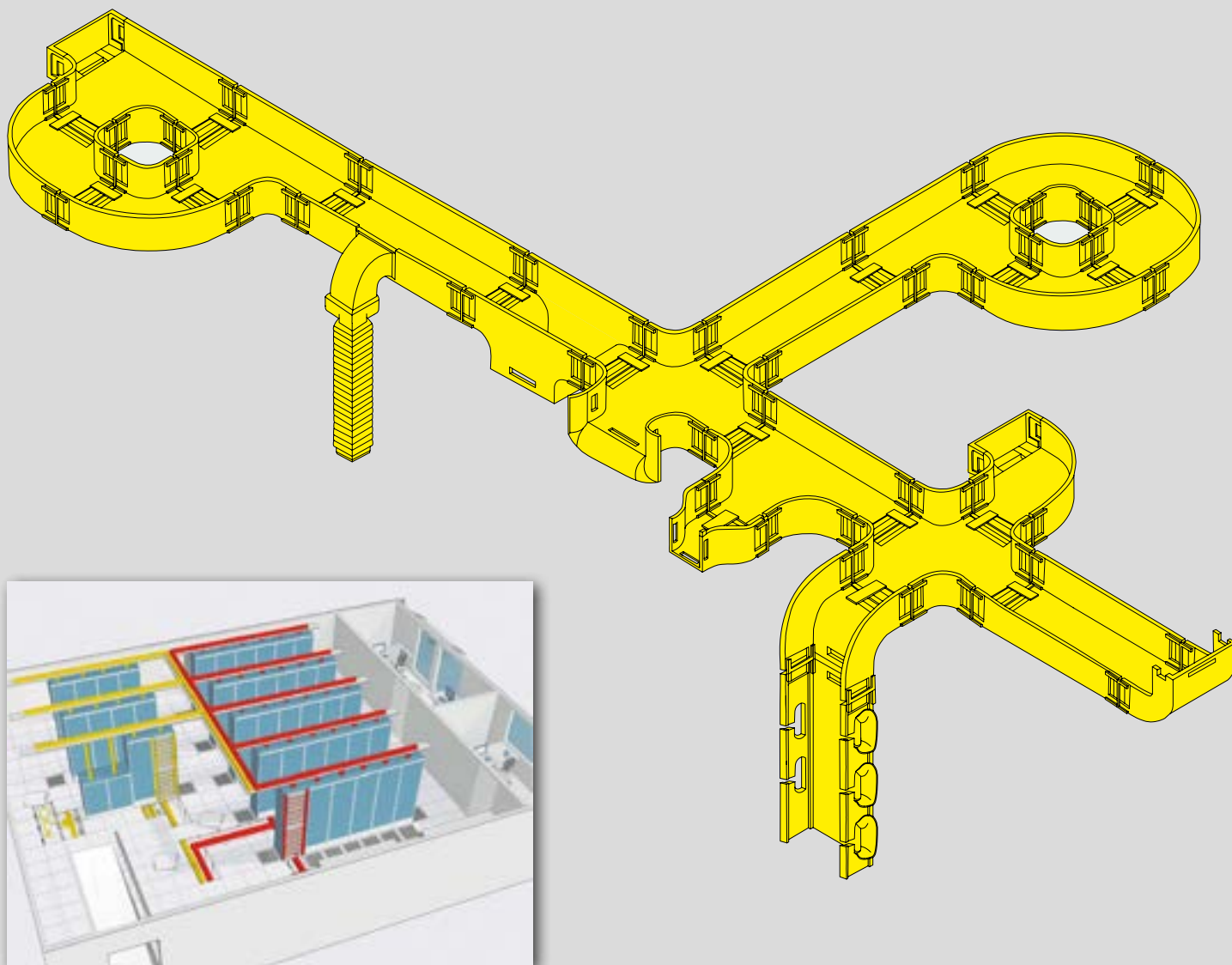
Pre-slotted duct and accessories simply snap together with slotted or slotless couplers, express outlets and breakout kits.

4. ZERO DOWN TIME

Fibre raceway can easily be changed or extended without the need to remove the existing fibre or shut down.

5. FULLY RECYCLABLE

The granulate Noryl, which is used for fibre raceway, is fully recyclable (cradle to cradle) which is a very important issue for future data centres.



Program

Duct size (mm)	50 x 50			100 x 100			220 x 100			300 x 100			600 x 100		
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	-	-	-	-	-	-
Convolted tubing	Split 200 mm Ø			Split 38 mm Ø			Split 50 mm Ø			50 x 50 square					
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 occur to the cords due to crushing. This is not the number of optical fibre cords that fibre raceway can accommodate if completely filled.














Selecting the Ducting - Raceway size



















Fibre raceway is available in five sizes. It is 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 only specify for existing needs. It is ultimately more cost-effective to provide for the future and over-specify when it comes to capacity.

Legrand Fibre Raceway

configure your system

SOLID DUCTS, COUPLERS AND HORIZONTAL ELBOWS							
			Solid ducts	Solid ducts with cover	Slotted couplers	Slotting tools	
			Length 2000 mm	Length 2000 mm	Tool required	Hand-operated	Foot-operated
							
	50 x 50		TC1279-81	TC1279-81XA	TC1279-73	TC1279-118	-
	100 x 100		TC1279-23	TC1279-23ASN	TC1279-27	TC1279-51	TC1279-500KIT
	220 x 100		TC1279-21	TC1279-21ASN	TC1279-25		
	300 x 100		TC1279-275	TC1279-275A	TC1279-320KIT		
	600 x 100		TC1279-406	-	-	-	-
Fixing with couplers			1x 	1x 			





VERTICAL ELBOWS, TEES, CROSSES AND END CAPS								
		Vertical elbows up (with cover)			Vertical elbows down (with cover)			
		30°	45°	90°	30°	45°	90°	
								
	50 x 50		-	TC1279-143-45A	TC1279-143A	TC1279-87-30A	TC1279-87-45A	TC1279-87A
	100 x 100		TC1279-113-30A	TC1279-113-45A	TC1279-113A	TC1279-111-30A	TC1279-111-45A	TC1279-111A
	220 x 100		TC1279-125-30A	TC1279-125-45A	TC1279-125A	TC1279-123-30A	TC1279-123-45A	TC1279-123A
	300 x 100		-	TC1279-283A	TC1279-298KIT	-	TC1279-285A	TC1279-193A
	600 x 100		-	-	-	-	-	-
Fixing with couplers			1x 	1x 	1x 	1x 	1x 	1x 

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





Ducting coupler options

The fibre raceway system has two options for coupling the components together: slotted couplers or slotless couplers.

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




Slotted couplers	Slotting tool		Saw kit
Tool required	Hand-operated	Foot-operated	Mitre box
			

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

	Slotless couplers	Saw kits	Horizontal elbows (with cover)		
	No slotting tool required	Mitre box	30°	45°	90°
					
	-	-	TC1279-77-30A	TC1279-77-45A	TC1279-77A
	TC1279-248A	TC1279-MITRE	TC1279-47A	TC1279-31-45A	TC1279-31A
	TC1279-250A		TC1279-45A	TC1279-29-45A	TC1279-29A
	TC1279-287A		-	TC1279-304A	TC1279-387A
	TC1279-410A	-	-	TC1279-414	TC1279-411A
	No slotting tools required		1x 	1x 	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 (100 x 100 to 220 x 100)	TC1279-57	TC1279-251	
TC1279-01A	TC1279-11A	TC1279-61A	TC1279-331A (220 x 100 to 300 x 100)	TC1279-56	TC1279-252	
TC1279-279A	TC1279-277A ⁽¹⁾	TC1279-300A	-	-	TC1279-288	
TC1279-412	-	TC1279-416	-	TC1279-435	-	
2x 	2x 	2x 	2x  note: different width	1x 		







Slotless couplers 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 coupler into place.





Slotless couplers	Saw kit	
No slotting tool required	Mitre box	Screwdriver
		

Legrand Fibre Raceway

configure your system (continued)

REDUCERS, SUPPORT BRACKETS AND OUTLETS						
		Reducers with cover	Reducers with cover		Duct end support brackets	
			Left hand	Right hand		
						
	50 x 50	●	TC1279-91A (50 x 50 - 100 x 100)	TC1279-07A (100-220 x 100)	TC1279-05A (100 x 100 - 220 x 100)	TC1279-127F
	100 x 100	●				TC1279-57D
	220 x 100	●				-
	300 x 100	●	TC1279-281A (300-220 x 100)	-	-	-
	600 x 100	●	TC1279-408 (300-600 x 100)	-	-	-
Fixing with couplers		1x 	1x 	1x 	-	



DROP-OFF SOLUTIONS, HIGH CAPACITY DUCT OUTLETS AND TUBES						
			Fibre drop-off solutions		High capacity duct outlets	
			See conduit 50 mm	See square conduit	Without convoluted tube	With convoluted tube
						
	50 x 50	●	TC1279-41KIT	TC1279-89KIT	-	-
	100 x 100	●			TC1279-452A	TC1279-452KIT
	220 x 100	●			TC1279-454A	TC1279-454KIT
	300 x 100	●			-	-
	600 x 100	●	-	-	-	-
Fixing with couplers			-	-	1x 	-

BRAND ADAPTORS						
			ADC/CommScope			
			ADC 4" -100x100	ADC 6" 100-100 RH	ADC 6" 220-100 LH	
						
	50 x 50	●	-	-	-	
	100 x 100	●	TC1279-109KIT	TC1279-472KIT	-	
	220 x 100	●	-	-	TC1279-149KIT	
	300 x 100	●	-	-	-	
	600 x 100	●	-	-	-	

1: Fibre raceway tubing is used for feeding entering or exiting fibres 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.

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

Cut-out jig	Tubing ⁽¹⁾			
	Conduit 50 mm	Square 50 x 50 (L : 350 mm)	Square openable (L : 350 mm)	
				
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/CommScope		
ADC 6" 220-100 RH	ADC 12" 300-100	
		
-	-	
-	-	
TC1279-150KIT	-	
-	TC1279-327KIT	
-	-	

Legrand Fibre Raceway

configure your system (continued)

SUSPENSION BRACKETS

			Cabinet suspension kits	Ceiling suspension kits			Universal mounting hardware
			Raised mounting kit	C-clamp	Ladder rack mounting kit	Ceiling suspension bracket	Duct mounting brackets
	50 x 50		TC1279-129KIT	347279	-	-	TC1279-147A
	100 x 100		TC1279-14A	347280	TC1279-155KIT	TC1279-107KITA	TC1279-16A
	220 x 100		TC1279-13A	347283	TC1279-155KIT	TC1279-106KITA	TC1279-15A
	300 x 100		-	347283	-	TC1279-297AKIT	TC1279-297A
	600 x 100		-	-	-	-	-

MOUNTING SOLUTIONS

Ceiling suspension brackets



TC1279-107KITA

Contents:
1 x Duct mounting bracket 100 mm
1 x Straight bracket
2 x Threaded rod 12 mm x 400 mm
8 x Nuts
1 x Bolt 12 mm x 13 mm
9 x Washers



TC1279-106KITA

Contents:
1 x Duct mounting bracket 220 mm
1 x Straight bracket
2 x Threaded rod 12 mm x 400 mm
8 x Nuts
1 x Bolt 12 mm x 13 mm
9 x Washers



TC1279-297AKIT

Contents:
1 x Duct mounting bracket 300 mm
2 x 1/2" UNC Threaded rods, 1 m long
8 x 1/2" hex. Nuts
8 washers

Raised mounting kits



This mounting kit is used for supporting 50 mm duct above or below cabinets or iron work



TC1279-129KIT

Contents:
1 x Mounting plate 50 mm
1x 2 part hook and loop adhesive
1 x Threaded rod 12 mm x 400 mm
4 x Nuts
4 x Washers



TC1279-14A

Contents:
1 x Duct mounting bracket 100 mm
1 x Threaded rod 12 mm x 400 mm
3 x Nuts
3 x Washers
1 x Protective tube



TC1279-13A

Contents:
1 x Duct mounting bracket 220 mm
1 x Threaded rod 12mm x 400 mm
3 x Nuts
3 x Washers
1 x Protective tube

Ladder rack and channel mounting kits



TC1279-155KIT

Contents:
1 x Bracket
1 x Clamp bracket
2 x Washers, nuts and bolts

To be used with 100, 220 and 300 mm duct mounting kits

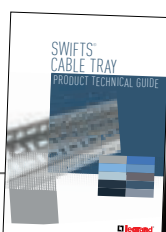


TC1279-DCUUM10

Contents:
Pack of 10 clamps
Used to clamp 100 x 50, 100 x 100, 200 x 100 and 300 x 100 Fibre Raceway ducts to 41 Channel profile
Dims. 64 x 35 x 2 cm (W x D x H)



For details of
Swifts Cable Tray and
Ladder ranges,
visit www.legrand.co.uk



Legrand Fibre Raceway

tooling components

Foot-operated slotting tool - TC1279-500

The foot-operated duct slotting tool is a means of making duct end slots easily, accurately and quickly. It can take less than a minute to slot one end of a duct. By using a foot-operated system, only a small amount of effort is required to exert the large force necessary to make a slot. Both hands are then free to hold the duct.

The jaws are made of hardened carbon steel for a long service life.

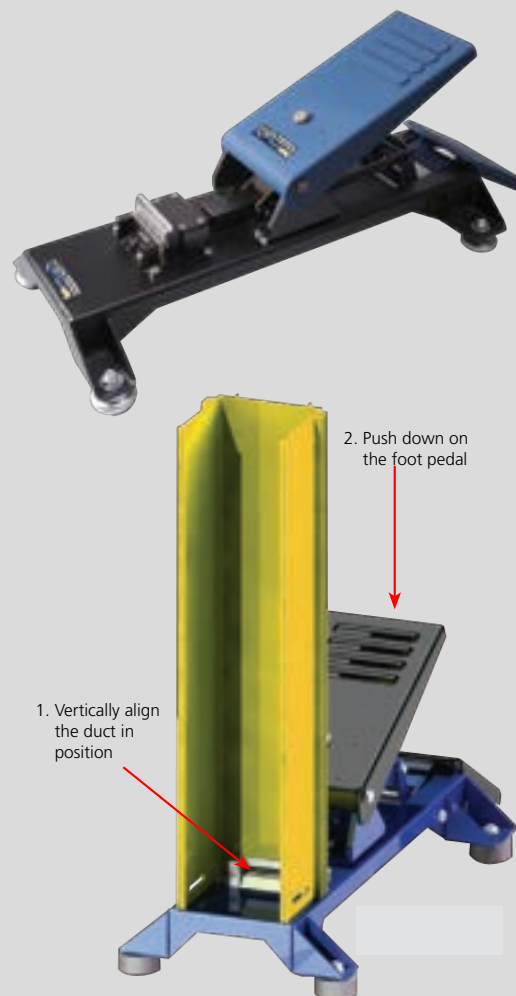
To operate, place the duct side or end within the tool's cutting guides and hold the duct down flush with the top face of the tool. Press the foot-operated lever until a slot is made. Release the slotting punch using the foot-operated release pedal.

Remove and reposition the duct for the next slot. The slotting tool cuts a slot in the duct end to suit a standard coupler. The kit includes one foot-operated slotting tool and a metal tool box for storage and transport, complete with a foam insert.

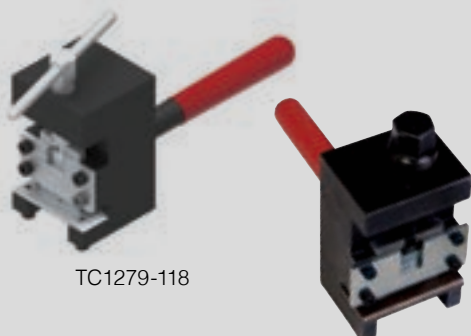
Standard couplers are available separately. See Cat. Nos. TC1279-73, TC1279-27, TC1279-25 and TC1279-320KIT

Features:

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



Hand-operated slotting tools - TC1279-118 & TC1279-51



TC1279-118

TC1279-51

The slotting tool is used to make a small slot at the bottom and on both sides of the ends of the 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 220 x100 mm, 300 x 100mm and 100 x 100 mm ducts
TC1279-118	For 50 mm ducts

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