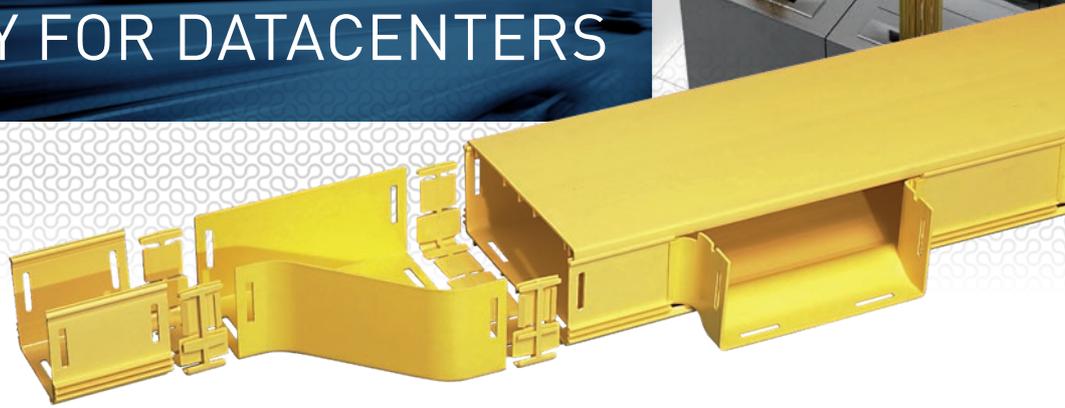# LEGRAND FIBER RACEWAY

CABLE TRAY FOR DATACENTERS
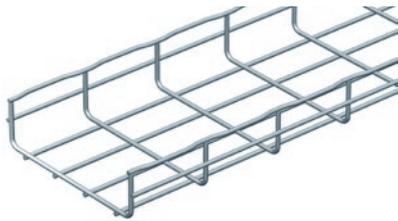

legrand®

THE **GLOBAL SPECIALIST**
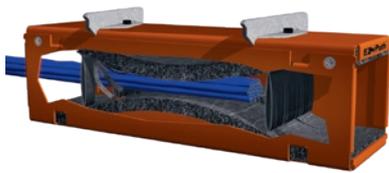IN ELECTRICAL AND DIGITAL BUILDING INFRASTRUCTURES

legrand

LEGRAND, INTEGRATED DATACENTER SOLUTIONS

Legrand is a global specialist in building-related (IT) infrastructure. In the Benelux Legrand mainly focuses on non-residential buildings, machinery and panel construction as well as the industrial sector for energy distribution, communications networks and building automation. With Legrand, customers benefit from having a single point of contact for their entire project.

CABLOFIL

- Compliance with the permitted bending radiuses for copper and optical fiber data transmission cables, with:
  - the Cablofil range
  - a wide range of accessories for server racks and HD racks
- Protection of the cables when they are installed or replaced with:
  - Cablofil cable trays and their patented T-joint system
  - the automatic cable fixing system on LCS[3] patch panels without cable ties
- Compliance of the hot and cold air flows with the ranges of short (<1m) LCS[3] cords and the vertical fixing system for the panels at the rear of the server racks.

EZ-PATH

EZ-Path is a firestop wall device for routing cables. The device closes if there is a fire. With this system cable routing can be adjusted at any time without losing its firestop qualities.

RARITAN

Raritan's PDU offer comprises 230V and 415V models, in hundreds of different configurations, including per socket monitoring that help to improve power usage effectiveness of datacenters. Remote and 'at-the-rack' data collection of current (amps), voltage, power (kVA, kW), and energy consumption (kWh)

ZUCCHINI BUSBAR MR DC (160-1000A)

Energy distribution solutions in the computer room:
- The MR busbar range solution, with tap-off outlets, can be used to connect and disconnect tap-off boxes supplying a PDU while energized.

FIBER RACEWAY

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

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

P31 CABLETRAY

• Conform IEC 61537 & UL (for CPC tray)
• Fire integrity 4102-12 & NPR 2576:2016
• Material: -Sendzimir NEN EN 10346
              -Hotdip Galvanised NEN EN 1461
              -Sendzimir Ral 9010
• Available in any RAL colour on request
• Blind, perforated and heavy embossed for 400 & 600mm
• Width: 75mm to 600mm
• Height: 25,60,75 & 100mm
• Length: 3 mtr (Other lengths up to 6 mtr available on request)
• Support distance up to 3 m.
• Complete range of accessories
• BIM available

GLO-4 LIGHT AND MEDIUM DUTY LADDER

• Conform IEC 61537
• Material: - Sendzimir NEN EN 10346
              - Hotdip Galvanised ENEN EN 1461
              - Available in any RAL colour.
• Light duty and medium duty rungs available
• Rung distance 100, 200 & 300mm
• Width: 200mm to 600mm (specials available)
• Height: 60mm and 100mm
• Length: 3 & 6 mtr
• Support distance up to 3 mtr.
• Complete range of accessories

P17 TEMPRA PRO

• IP 44 and IP 66/67/69
• LS 16 to 125 A and ZLS to 32 A
• Polarity: 2P, 2P+A, 3P+A, 3P+N+A
• frequency: 50/60 Hz
• IK 09

PLANET WHATTOHM
TYPE ST, BSI & HV

• Material: PVC & PC-ABS Halogen free
• Colour RAL 7030, Afnor 2525, Blue
• Conform EN50085 Part 2&3
• Width: 15mm to 150mm
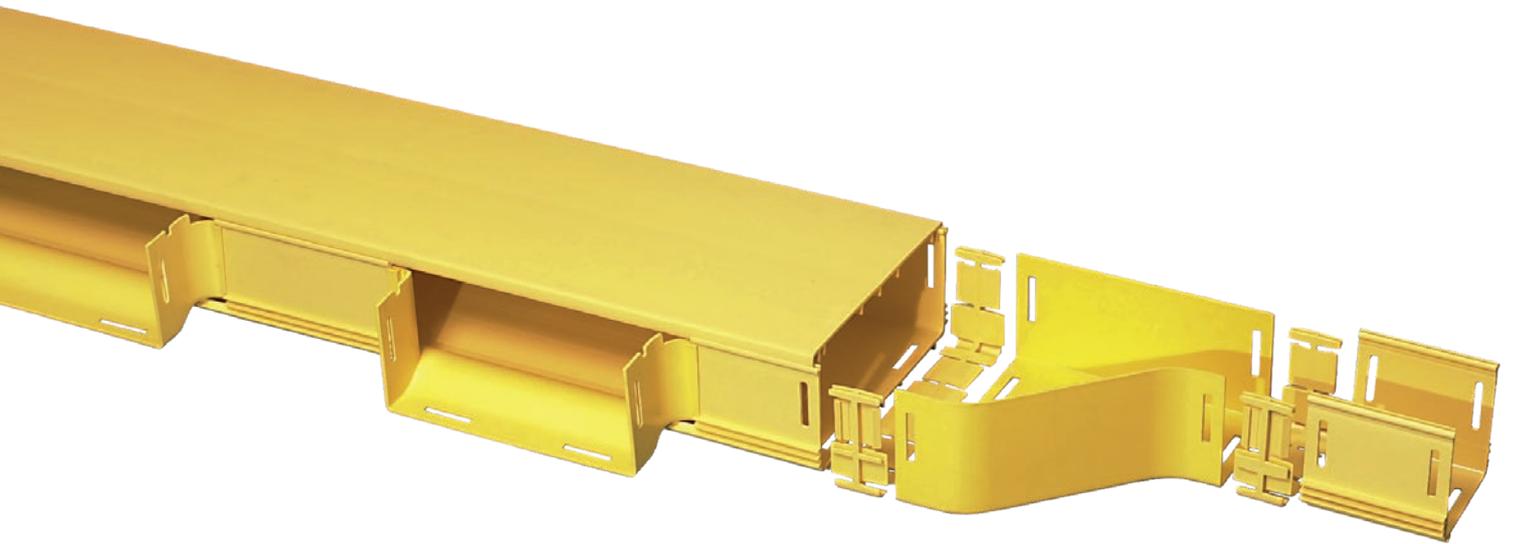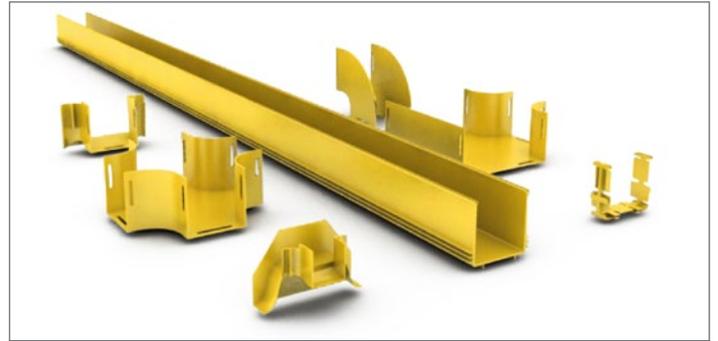• Height: 25mm to 100mm
• Complete range of accessories and tools

SIX IMPORTANT SALES ARGUMENTS

AT A GLANCE FOR USING FIBER RACEWAY

EASY INSTALLATION

7 BASIC ELEMENTS

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 (=standard), orange and black
• protection against compression
• protection against bend radius
• available sizes 50 mm, 100 mm, 220 mm, 300 mm and 600 mm

2. MEETS FOLLOWING IMPORTANT STANDARDS:

• Low smoke Zero Halogen, self-extinguishing. 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.
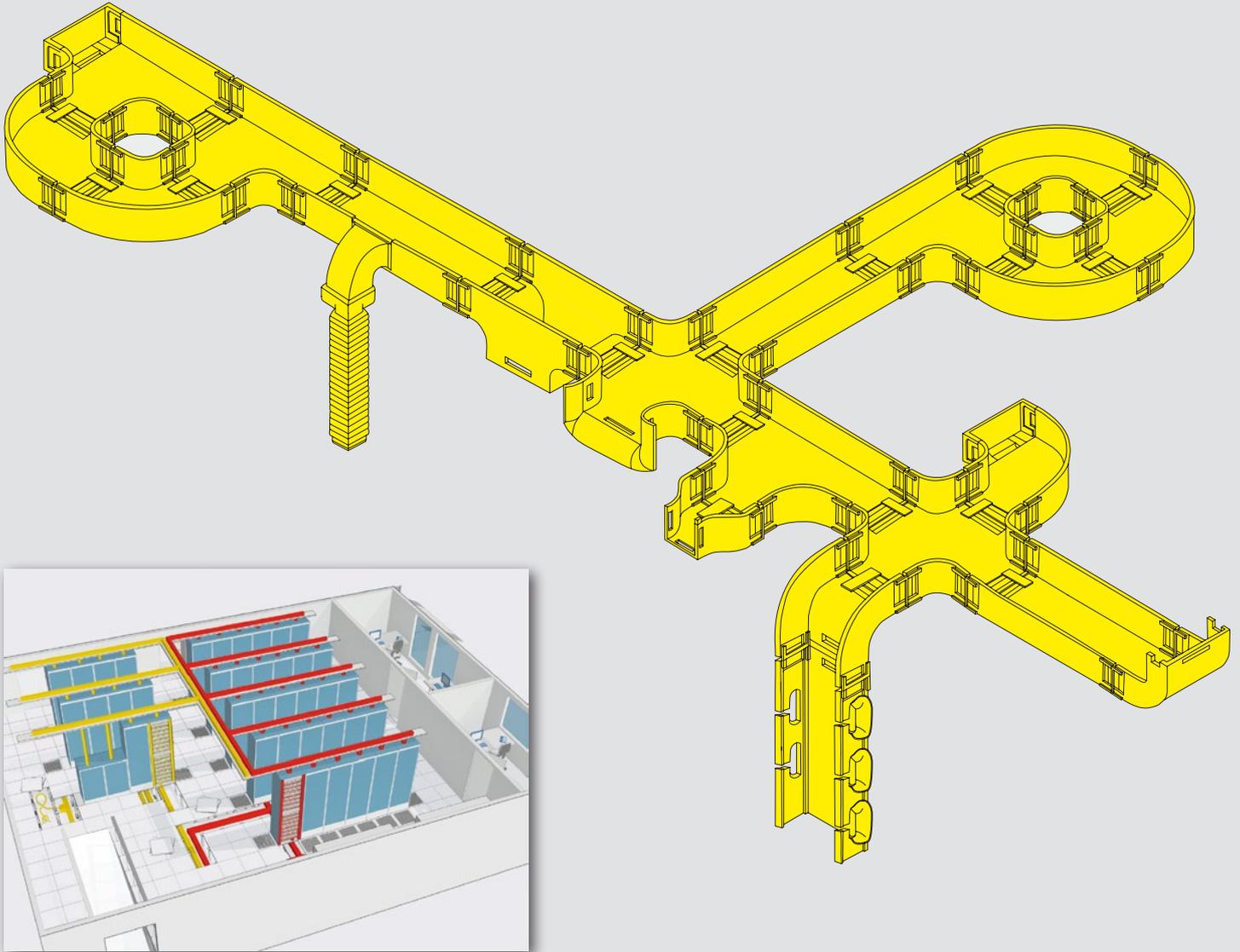
4. ZERO DOWN TIME

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.

6. 10 YEAR WARRANTY

All products are manufactured to the highest quality standards ISO 9001, complying with the stringent requirements of UL2024A and ROHS, and carry a 10 year warrenty.

Program

Duct size (mm)	50x50			100x100			220x100			300x100			600x100		
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-downsprout-drop				500	700	1200	500	700	1200						

Convuluted tubing	Split 200mm Ø			Split 38mm Ø			Split 50mm Ø			50x50 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 are 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 six 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.