*YellowDuct*

# Optical Fibre & Copper Ducting - Raceway

## Solutions, Products & Accessories

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# We listen, we respect and we deliver.

# WB TelAssist
## iOS and Android app

The WB TelAssist app has been specifically developed by WBT for technicians, contractors and sub-contractors who install and maintain products in the Australian telecommunications network.

The app combines all technical resources including product guides, installation guides, safety data sheets, training videos and customer support into a single, easy to use app.



WB TelAssist
mobile application

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**This optical fibre ducting raceway is a unique system for routing and protecting fibre optic cords between termination equipment, patch panels and fibre optic splicing frames in telecommunications exchanges and data centres. Easily mounted above equipment racks or below floors, it provides an easily accessible solution to any situation.**

This YellowDuct ducting raceway is available in seven 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 a false economy to just specify for existing needs. It is ultimately more cost effective to plan for the future and over specify when it comes to capacity. Cable exit points and take offs also need to be taken into account as these components have different capacity ratings to the main ducting raceway.

These components simply snap together or can be joined with "slotless" joiners. Vertical drops can be positioned or added easily by adding a cutout in the horizontal duct raceway with a simple to operate hand tool or by using the express "over the top" drop option requiring no tools.

The unique design of the YellowDuct system protects the fibre from damage and ensures that the bend radius of the cable is not compromised. All components in the system are manufactured from Noryl, a very strong engineering plastic, which is self-extinguishing and halogen free (certified to UL94V-0 specifications for 100, 220 and 300mm ducting, and to UL94V-1 specifications for 30 and 50mm ducting), which means in the case of a fire, the gases emitted will not cause harm to personnel, buildings or transmission equipment, unlike some other brands of ducting.

This fibre optic ducting raceway products are manufactured to the highest quality standards (ISO9001), complying with the stringent requirements of UL2024A & ROHS and carry a 10 year warranty.

**These Ducting Raceway items, conform to the following standards and requirements:**

- ISO 9001 Certified Quality Management System by BSI
- Fire retardant plastic, Halogen Free, for 100, 220 and 300mm ducting the rating is UL94V-0, for 30 and 50mm ducting the rating is UL94V-1
- UL2024A standard
- EEU - ROHS requirements
- GR-63 Core Earthquake test compliance
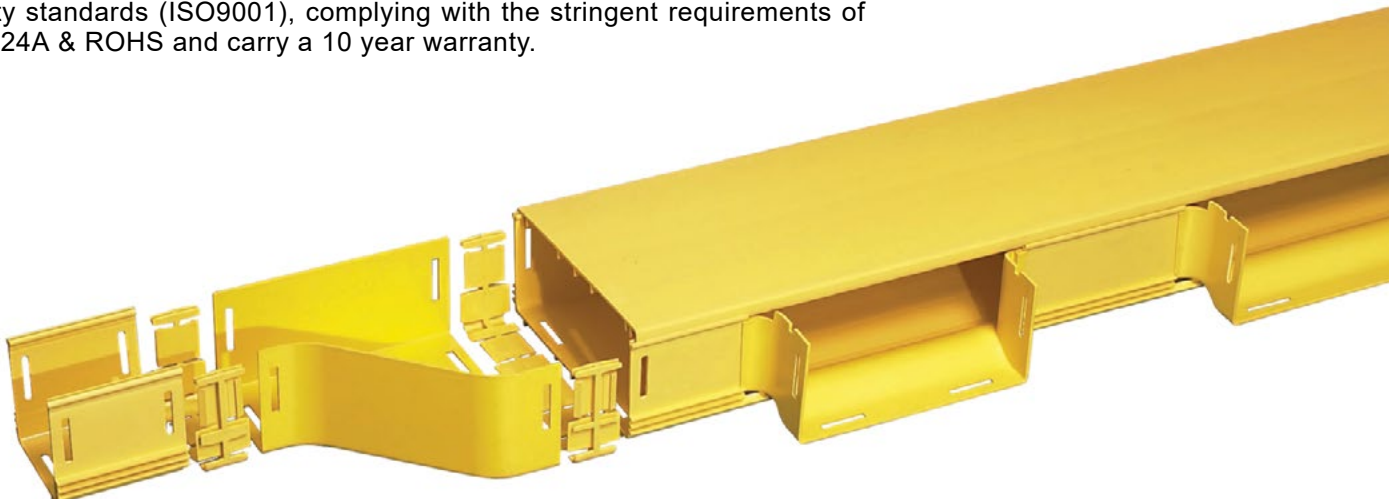
This YellowDuct ducting~raceway system can be mounted from walls, ladder rack, Unistrut™, on raised floor support brackets, on floors, or to the top of equipment racks or frames. Over 350 individual components are available in 7 different sizes.
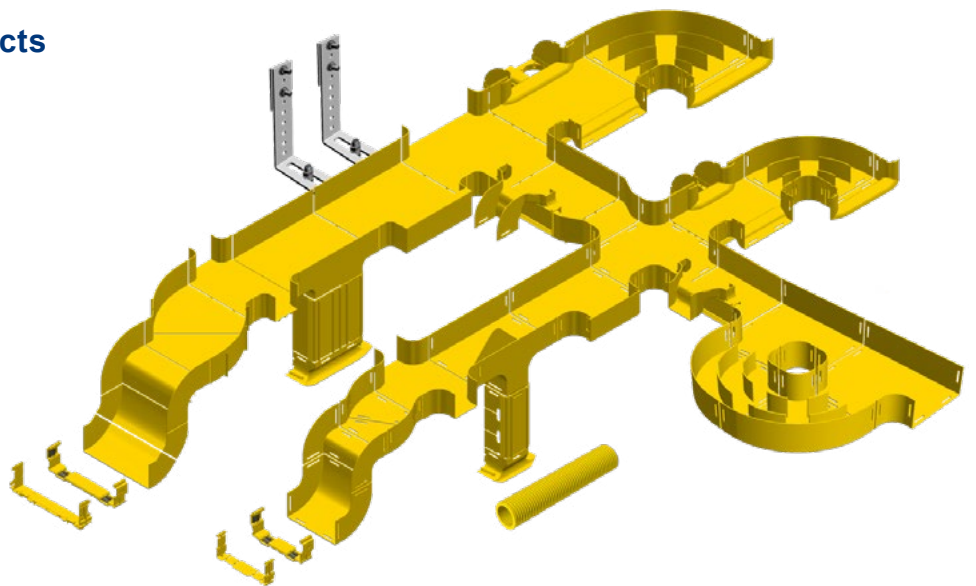
# Selecting the ducting raceway size

The capacities listed below are recommended to ensure no damage will occur to the cords due to crushing. This is not the number of optical fibre cords that the ducting raceway will accommodate if completely filled.

| DUCT SIZE | millimetres | 30 x 30 | 50 x 50 | 100 x 50 | 100 x 100 | 220 x 100 | 300 x 100 | 600 x 100 |
|---|---|---|---|---|---|---|---|---|
| | inches | 1.25 x 1.25 | 2 x 2 | 4 x 2 | 4 x 4 | 8 x 4 | 12 x 4 | 24 x 4 |
| Optical cable size / mm | | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| CAPACITIES | | | | | | | | |
| Straight ducting raceway | | 100 | 280 | 560 | 1110 | 2450 | 3340 | 6680 |
| Ducting raceway with ramp-off | | | | | 670 | 1470 | | |
| Vertical tee - straight through | | | | | 1110 | 980 | | |
| Vertical tee downspout - drop | | | | | 1110 | 1100 | | |
| Over the top outlet | | | | | 670 | | | |

| CONVOLUTED TUBING | Split 20 mm dia. | 38 mm dia. | 50 mm dia. | 75 mm dia. | 50 x 50 square |
|---|---|---|---|---|---|
| Optical cable size / mm | 2 | 2 | 2 | 2 | 2 |
| TUBING CAPACITY | 22 | 125 | 220 | 360 | 280 |

**Note:** *Calculations are based on half full duct capacity - 50%*

# Ducting raceway mounting

This YellowDuct ducting raceway can be mounted from walls, ladder rack, unistrut, on raised floor support brackets, on floors, or to the top of equipment racks of frames. Select an appropriate mounting method from the examples shown otherwise you can contact your sales office or distributor for additional mounting options and custom solutions.
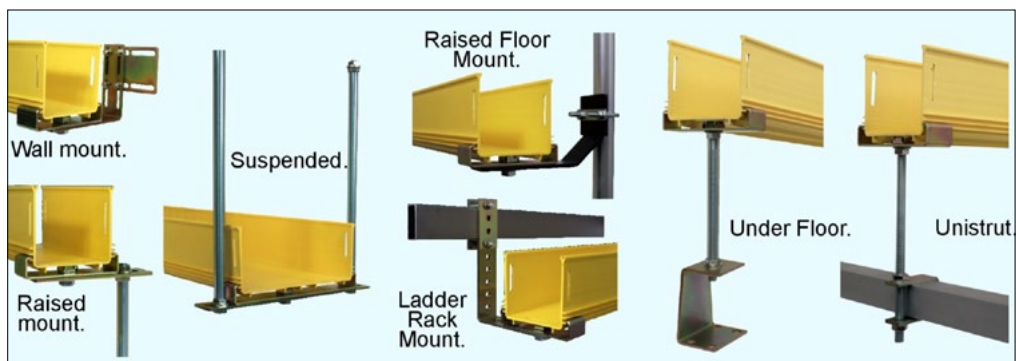


# Cable entry and exits

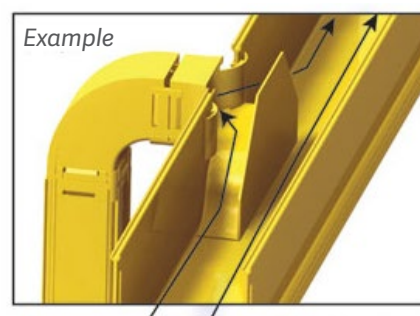Select the appropriate drop-off or outlet method from the following examples:

Round convoluted tube

Solid duct



*Fibre cords can be simply routed via ramp off into or out of the ducting.*



*Example*

*Cords can easily pass through the ducting to the next drop point or exit.*

Single or dual high-density convoluted tube outlets.



Trumpet

Square convoluted tube
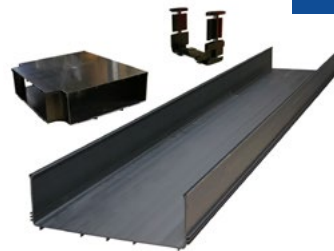
# Colour coding for optimum cable management

**Orange ducting is recommended for highlighting the redundant fibre network**



**Black ducting is recommended for use with UTP 10 Gigabit copper**



With the ever increasing demand for zero down-time solutions in Data Centres and Telecommunications networks there has been a growing need for redundancy cable systems. To route both operating and redundant optic fibres in the yellow coloured ducting can create problems in identification of the redundant fibre and/or system. As a result there is an obvious need to differentiate between the operating and redundant networks of fibre optic cabling. To minimise the potential for costly mistakes in this area, we introduced orange ducting which is recommended for highlighting the redundant fibre network, thereby improving maintenance efficiency.

Parallel to the redundancy needs, a new issue has arisen in installations. The state-of-the-art 10 Gigabit copper UTP cabling also has very high demands on bend radius. This requires a new approach to the conventional metal cable trays (ladders, baskets, etc.). The conventional metal trays are not designed to provide safe bending radius and as a result we introduced black ducting. Again, this new black ducting has the same unique features and benefits of the yellow and orange ducting and allows clear distinction of the sensitive 10 Gigabit copper UTP cabling from the two Lightpaths optic fibre systems.

Note: All part numbers listed on the website are for yellow ducting, so when ordering black or orange ducting just add "O" for orange or "B" for black to the end of the relevant part number. However, black and orange are only available in duct sizes 100 x 100mm, 220 x 100mm & 300 x 100mm.

# Ducting joiner options

The YellowDuct optical fibre ducting raceway system has 2 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.



Slotless joiners require no additional tooling or for slots to be made in the side of the duct. They only require a screwdriver for installation to tighten the joiner into place
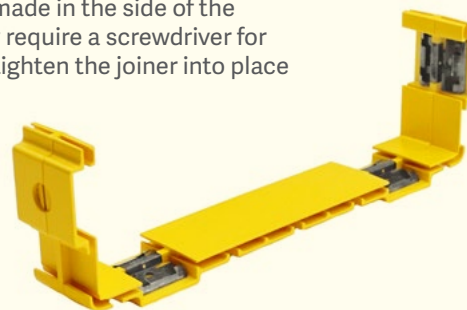


Note: All ducting components and lengths are supplied pre-slotted.

# Draw a plan

Draw a view plan of the room/area where ducting raceway is required. Include cabinet sizes and positions as well as ladder racks, cable trays or air conditioning ducts. Denote duct size required in each area. Mark ducting raceway support bracket locations. The recommended spacing for mounting brackets is 900mm or 1.2m maximum.

For copper systems use 600mm spacing. Brackets should be mounted close to the joiners if possible. Draw a side view of all areas where the ducting raceway changes level or mounting system needs to change.
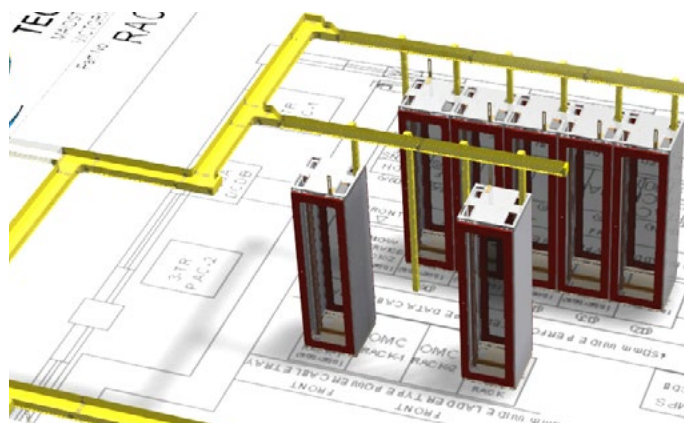


# Material list

List all components required by part number and quantity from the following pages.

Note: Ensure that all components including joiners, mounting hardware, end caps, convoluted tube etc. are included. We recommend including 10% more joiners and brackets.

## 600mm x 100mm system

The 600mm x 100mm (24" x 4") ducting raceway system provides maximum capacity for routing and protecting optical fibre patch cords. Up to 7500, 2mm patch cords can be routed through the 600mm x 100mm ducting raceway system (50% fill rate), thereby doubling the capacity of the previous largest 300mm x 100mm system.

The 600 x 100mm ducting raceway system is compatible with most other ducting components, including drop-offs, outlets and reducers and is easy to install.
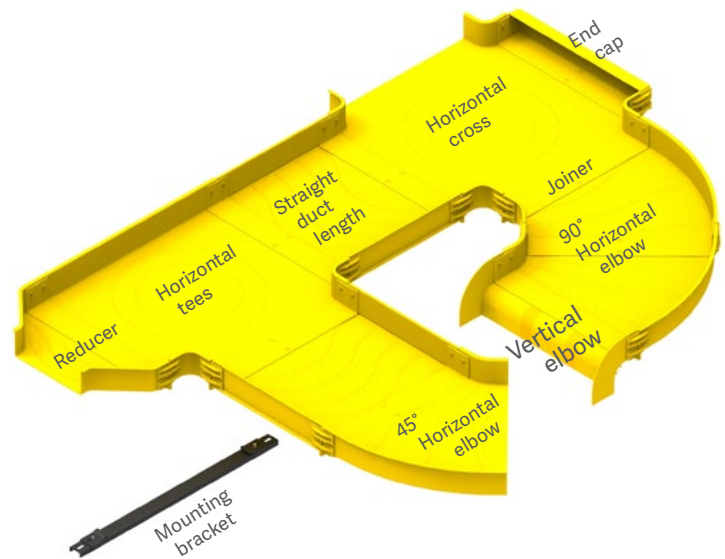
| Part No. | Description |
|---|---|
| TC1279-406 | 600mm x 100mm straight duct length – 2 m |
| TC1279-408 | 600mm x 100mm to 300mm x 100mm reducer |
| TC1279-410A | 600mm x 100mm joiner |
| TC1279-411A | 600mm x 100mm 90° horizontal elbow |
| TC1279-412 | 600mm x 100mm horizontal tee |
| TC1279-414 | 600mm x 100mm 45° horizontal elbow |
| TC1279-425A | 600mm x 100mm 90° vertical elbow |
| TC1279-416 | 600mm x 100mm horizontal cross |
| TC1279-435 | 600mm x 100mm end cap |
| TC1279-438A | 600mm x 100mm duct mounting bracket assembly |

### Straight duct lengths

The YellowDuct straight duct lengths are available in seven sizes with or without covers. Slotted duct / raceway is available in some sizes for vertical drops or applications inside equipment racks to allow cords to exit through the side of the duct. Some sizes are available with hinged covers (hinges included in pack), or clip on covers.

All duct sizes come in 2m (6' 7") lengths, and where required, are slotted at each end for simply snapping together with an appropriate joiner. Most other ducting raceway brands are only available in 6 foot lengths - 10% shorter than YellowDuct.

**TC1279-83**   **TC1279-81**

**TC1279-223SLXA**

| Size (mm) Size (inches) | 30 x 30 1.25" x 1.25" | 50 x 50 2" x 2" | 100 x 50 4" x 2" | 100 x 100 4" x 4" | 220 x 100 8" x 4" | 300 x 100 12" x 4" | 600 x 100 24" x 4" |
|---|---|---|---|---|---|---|---|
| Solid duct | TC1279-83 | TC1279-81 | TC1279-223 | TC1279-23 | TC1279-21 | TC1279-275 | TC1279-406 |
| Solid duct & cover | TC1279-83XA | TC1279-81XA | TC1279-223ASN | TC1279-23ASN | TC1279-21ASN | TC1279-275A | N/A |
| Solid duct & hinged cover | TC1279-83A | TC1279-81A | TC1279-223A | TC1279-23A | TC1279-21A | N/A | N/A |
| Slotted duct (side exit) | TC1279-83SL | TC1279-81SL | TC1279-223SL | TC1279-23SL | N/A | N/A | N/A |
| Slotted duct & cover | TC1279-83SLXA | TC1279-81SLXA | TC1279-223SLASN | TC1279-23SLASN | N/A | N/A | N/A |
| Slotted duct & hinged cover | TC1279-83SLA | TC1279-81SLA | TC1279-223SLXA | TC1279-23SLA | N/A | N/A | N/A |

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# Joiners

These YellowDuct joiners are used to snap together system components and straight ducting raceway. They simply snap into the slots in the end of each piece to be joined.

"Slotless" joiners are available in sizes from 100mm x 50mm upwards and will join the ducting raceway components with or without joining slots

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

All components (tees, elbows, ets) come preslotted to aid speedy installation.

**TC1279-27**

**TC1279-248A**

| Size (mm)<br>Size (inches) | 30 x 30<br>1.25" x 1.25" | 50 x 50<br>2" x 2" | 100 x 50<br>4" x 2" | 100 x 100<br>4" x 4" | 220 x 100<br>8" x 4" | 300 x 100<br>12" x 4" | 600 x 100<br>24" x 4" |
|---|---|---|---|---|---|---|---|
| Joiners (requires slots) | TC1279-98 | TC1279-73 | TC1279-226 | TC1279-27 | TC1279-25 | TC1279-320KIT | N/A |
| Slotless joiners | N/A | N/A | TC1279-459A | TC1279-248A | TC1279-250A | TC1279-287A | TC1279-410A |

# Vertical elbows

YellowDuct vertical elbows are used to connect horizontal routes at different height, or to allow the fibre path to be raised or lowered to avoid obstacles. Retrofit versions are used where there is existing fibre. They are available with or without covers.

**TC1279-113R**

**TC1279-113A**

| Size (mm)<br>Size (inches) | 30 x 30<br>1.25" x 1.25" | 50 x 50<br>2" x 2" | 100 x 50<br>4" x 2" | 100 x 100<br>4" x 4" | 220 x 100<br>8" x 4" | 300 x 100<br>12" x 4" | 600 x 100<br>24" x 4" |
|---|---|---|---|---|---|---|---|
| 30° down | TC1279-135-30 | TC1279-87-30 | N/A | TC1279-111-30 | TC1279-123-30 | N/A | N/A |
| 30° down & cover | TC1279-135-30A | TC1279-87-30A | N/A | TC1279-111-30A | TC1279-123-30A | N/A | N/A |
| 30° down retrofit | N/A | N/A | N/A | TC1279-111-30R | TC1279-123-30R | N/A | N/A |
| 30° up | N/A | N/A | N/A | TC1279-113-30 | TC1279-125-30 | N/A | N/A |
| 30° up & cover | N/A | N/A | N/A | TC1279-113-30A | TC1279-125-30A | N/A | N/A |
| 30° up retrofit | N/A | N/A | N/A | TC1279-113-30R | TC1279-125-30R | N/A | N/A |
| 45° down | TC1279-135-45 | TC1279-87-45 | N/A | TC1279-111-45 | TC1279-123-45 | TC1279-285 | N/A |
| 45° down & cover | TC1279-135-45A | TC1279-87-45A | N/A | TC1279-111-45A | TC1279-123-45A | TC1279-285A | N/A |
| 45° down retrofit | N/A | N/A | N/A | TC1279-111-45R | TC1279-123-45R | N/A | N/A |
| 45° up | N/A | TC1279-143-45 | N/A | TC1279-113-45 | TC1279-125-45 | TC1279-283 | N/A |
| 45° up & cover | N/A | TC1279-143-45A | N/A | TC1279-113-45A | TC1279-125-45A | TC1279-283A | N/A |
| 45° up retrofit | N/A | TC1279-143-45R | N/A | TC1279-113-45R | TC1279-125-45R | N/A | N/A |
| 90° down | TC1279-135 | TC1279-87 | TC1279-236 | TC1279-111 | TC1279-123 | TC1279-193 | TC1279-425A |
| 90° down & cover | TC1279-135A | TC1279-87A | TC1279-236A | TC1279-111A | TC1279-123A | TC1279-193A | N/A |
| 90° down retrofit | N/A | TC1279-87R | TC1279-236R | TC1279-111R | TC1279-123R | N/A | N/A |
| 90° up | TC1279-247 | TC1279-143 | TC1279-246 | TC1279-113 | TC1279-125 | TC1279-298A | N/A |
| 90° up & cover | TC1279-247A | TC1279-143A | TC1279-246A | TC1279-113A | TC1279-125A | TC1279-298KIT | N/A |
| 90° up retrofit | TC1279-247R | TC1279-143R | TC1279-246R | TC1279-113R | TC1279-125R | N/A | N/A |
| 90º up & down enclosed | N/A | N/A | N/A | TC1279-39A | TC1279-37A | N/A | N/A |

# Horizontal elbows

YellowDuct horizontal elbows are used to change the direction of horizontal routes. They are available with or without covers.



**TC1279-269**

**TC1279-29A**

| Size (mm)<br>Size (inches) | 30 x 30<br>1.25" x 1.25" | 50 x 50<br>2" x 2" | 100 x 50<br>4" x 2" | 100 x 100<br>4" x 4" | 220 x 100<br>8" x 4" | 300 x 100<br>12" x 4" | 600 x 100<br>24" x 4" |
|---|---|---|---|---|---|---|---|
| 30° elbow | TC1279-137-30 | TC1279-77-30 | N/A | TC1279-47 | TC1279-45 | N/A | N/A |
| 30° elbow & cover | TC1279-137-30A | TC1279-77-30A | N/A | TC1279-47A | TC1279-45A | N/A | N/A |
| 45° elbow | TC1279-137-45 | TC1279-77-45 | N/A | TC1279-31-45 | TC1279-29-45 | TC1279-304 | TC1279-414 |
| 45° elbow & cover | TC1279-137-45A | TC1279-77-45A | N/A | TC1279-31-45A | TC1279-29-45A | TC1279-304A | N/A |
| 90º elbow | TC1279-137 | TC1279-77 | TC1279-269 | TC1279-31 | TC1279-29 | TC1279-387 | TC1279-411A |
| 90º elbow & cover | TC1279-137A | TC1279-77A | TC1279-269A | TC1279-31A | TC1279-29A | TC1279-387A | N/A |

# Horizontal tees

YellowDuct horizontal tees may be used to branch off the main route or provide a method of breaking into horizontal duct. They are available with or without covers.

Note: Horizontal tees can also be used as a means of drop off.



**TC1279-09A**

**TC1279-75**

| Size (mm)<br>Size (inches) | 30 x 30<br>1.25" x 1.25" | 50 x 50<br>2" x 2" | 100 x 50<br>4" x 2" | 100 x 100<br>4" x 4" | 220 x 100<br>8" x 4" | 300 x 100<br>12" x 4" | 600 x 100<br>24" x 4" |
|---|---|---|---|---|---|---|---|
| Horizontal tee | TC1279-115 | TC1279-75 | TC1279-224 | TC1279-03 | TC1279-01 | TC1279-279 | TC1279-412 |
| Horizontal tee & cover | TC1279-115A | TC1279-75A | TC1279-224A | TC1279-03A | TC1279-01A | TC1279-279A | N/A |
| 300mm - 220mm duct horizontal tee & cover | TC1279-316A | 220mm - 100mm duct horizontal tee & cover | | | TC1279-09A | N/A |
| 300mm - 100mm duct horizontal tee & cover | TC1279-398A | 100mm - 220mm duct horizontal tee & cover | | | TC1279-393A | N/A |

# Vertical tees (downspouts) - intrasuite assemblies

YellowDuct vertical tees can be used to drop cables vertically from horizontal routes into frames or cabinets. Retrofit tees provide open access and are used where cables are already in place. They are available with or without covers.

Can also be used as drop-offs.



**TC1279-11A**

**TC1279-11R**

| Size (mm)<br>Size (inches) | 30 x 30<br>1.25" x 1.25" | 50 x 50<br>2" x 2" | 100 x 50<br>4" x 2" | 100 x 100<br>4" x 4" | 220 x 100<br>8" x 4" | 300 x 100<br>12" x 4" | 600 x 100<br>24" x 4" |
|---|---|---|---|---|---|---|---|
| 30 x 30mm drop | TC1279-167 | N/A | N/A | N/A | N/A | N/A | N/A |
| 30 x 30mm drop & cover | TC1279-167A | N/A | N/A | N/A | N/A | N/A | N/A |
| 50 x 50mm drop | N/A | TC1279-145 | N/A | N/A | N/A | N/A | N/A |
| 50 x 50mm drop & cover | N/A | TC1279-145A | N/A | N/A | N/A | N/A | N/A |
| 50 x 50mm drop retro | N/A | TC1279-145R | N/A | N/A | N/A | N/A | N/A |
| 100 x 50mm drop | N/A | N/A | TC1279-228 | N/A | N/A | N/A | N/A |
| 100 x 50mm drop & cover | N/A | N/A | TC1279-228A | N/A | N/A | N/A | N/A |
| 100 x 100mm drop | N/A | N/A | N/A | TC1279-63 | TC1279-11 | N/A | N/A |
| 100 x 100mm drop & cover | N/A | N/A | N/A | TC1279-63A | TC1279-11A | N/A | N/A |
| 100 x 100mm drop retro | N/A | N/A | N/A | TC1279-63R | TC1279-11R | N/A | N/A |
| 220 x 100mm drop | N/A | N/A | N/A | N/A | N/A | TC1279-277 | N/A |
| 220 x 100mm drop & cover | N/A | N/A | N/A | N/A | TC1279-329A | TC1279-277A | N/A |

# Horizontal crosses

YellowDuct horizontal crosses can be used to provide a cross intersection in straight duct.

Reduction crosses join horizontal duct of different sizes.



**TC1279-396**

**TC1279-396A**

| Size (mm)<br>Size (inches) | 30 x 30<br>1.25" x 1.25" | 50 x 50<br>2" x 2" | 100 x 50<br>4" x 2" | 100 x 100<br>4" x 4" | 220 x 100<br>8" x 4" | 300 x 100<br>12" x 4" | 600 x 100<br>24" x 4" |
|---|---|---|---|---|---|---|---|
| Horizontal cross | N/A | TC1279-139 | TC1279-234 | TC1279-71 | TC1279-61 | TC1279-300 | TC1279-416 |
| Horizontal cross & cover | N/A | TC1279-139A | TC1279-234A | TC1279-71A | TC1279-61A | TC1279-300A | N/A |
| Reduction cross | | 220 x 100 to 100 x 100 | TC1279-65 | | 220 x 100 to 300 x 100 | TC1279-331 | N/A |
| Reduction cross & cover | | 220 x 100 to 100 x 100 | TC1279-65A | | 220 x 100 to 300 x 100 | TC1279-331A | N/A |
| Reduction cross | | 300 X 100 to 100 x 100 | TC1279-396 | | | | |
| Reduction cross & cover | | 300 X 100 to 100 x 100 | TC1279-396A | | | | |

# Fibre storage loops

YellowDuct fibre storage loops are used to safely store excess optical fibre cable lengths and can be placed in any horizontal route or inside cabinets. They are available in inline or offset versions.



**TC1279-208KIT**

**TC1279-191KIT**

| Size (mm)<br>Size (inches) | 30 x 30<br>1.25" x 1.25" | 50 x 50<br>2" x 2" | 100 x 50<br>4" x 2" | 100 x 100<br>4" x 4" | 220 x 100<br>8" x 4" | 300 x 100<br>12" x 4" | 600 x 100<br>24" x 4" |
|---|---|---|---|---|---|---|---|
| Inline | N/A | TC1279-209KIT | TC1279-186KIT | TC1279-208KIT | TC1279-207KIT | TC1279-485KIT | N/A |
| Offset | N/A | TC1279-178KIT | TC1279-195KIT | TC1279-192KIT | TC1279-191KIT | TC1279-315KIT | N/A |

# Adaptors

YellowDuct adaptors are used to connect parts from other products to the YellowDuct ducting raceway, ADC and Panduit ducts. Most other ducting brands can be slotted with a WBT slotting tool to suit one of our slotted joiners.



**TC1279-109KIT**
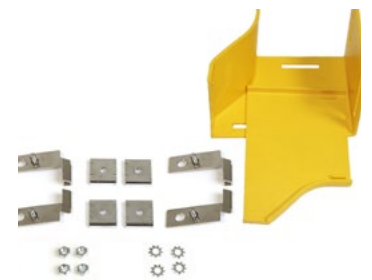
**TC1279-472KIT**

| Description | Part No. |
|---|---|
| Adaptor kit 100 x 100 YellowDuct to ADC 4" | TC1279-109KIT |
| Adaptor kit left hand YellowDuct 220 x 100mm to ADC 6" | TC1279-149KIT |
| Adaptor kit right hand YellowDuct 220 x 100mm to ADC 6" | TC1279-150KIT |
| Adaptor kit 100mm vertical YellowDuct to ADC 4",6" or 12" | TC1279-307SLKIT |
| Adaptor kit YellowDuct 300 x 100mm to ADC 12" | TC1279-327KIT |
| Adaptor kit right hand YellowDuct 100 x 100mm to ADC 6" | TC1279-472KIT |
| Adaptor kit left hand YellowDuct 100 x 100mm to ADC 6" | TC1279-473KIT |
| Adaptor kit right hand YellowDuct 220 x 100mm to Panduit 6" | TC1279-486KIT |
| Adaptor kit left hand YellowDuct 220 x 100mm to Panduit 6" | TC1279-487KIT |
| Adaptor kit YellowDuct 300 x 100mm to 12" x 4" Panduit duct | TC1279-492KIT |
| Adaptor kit 100mm YellowDuct to 4" Panduit duct | TC1279-173KIT |

# End caps

YellowDuct end caps are used to close off the end of a horizontal or vertical route of duct. Some are sealed, others have knock outs or spigots for convoluted tubing or fibre feedout.

**TC1279-127B**    **TC1279-57D**    **TC1279-456**

| Size (mm)<br>Size (inches) | 30 x 30<br>1.25" x 1.25" | 50 x 50<br>2" x 2" | 100 x 50<br>4" x 2" | 100 x 100<br>4" x 4" | 220 x 100<br>8" x 4" | 300 x 100<br>12" x 4" | 600 x 100<br>24" x 4" |
|---|---|---|---|---|---|---|---|
| Sealed | N/A | N/A | TC1279-227 | TC1279-57 | TC1279-56 | N/A | N/A |
| Sealed (for use with slotless joiners) | N/A | N/A | N/A | TC1279-251 | TC1279-252 | TC1279-288 | TC1279-435 |
| 1 x 17mm knockout | TC1279-128 | N/A | N/A | N/A | N/A | N/A | N/A |
| Tube outlet for 32mm tube | TC1279-128D | N/A | N/A | N/A | N/A | N/A | N/A |
| 2 x 20mm dia knockouts | N/A | TC1279-127 | N/A | N/A | N/A | N/A | N/A |
| 1 x 38mm dia knockout | N/A | TC1279-127B | N/A | N/A | N/A | N/A | N/A |
| 1 x 38mm cutout | N/A | TC1279-127C | N/A | N/A | N/A | N/A | N/A |
| Tube outlet for 50mm tube | N/A | TC1279-127D | N/A | N/A | N/A | N/A | N/A |
| 2 x 32mm dia knockouts | N/A | N/A | N/A | TC1279-57B | N/A | N/A | N/A |
| 2 x 46mm dia holes | N/A | N/A | N/A | TC1279-57C | N/A | N/A | N/A |
| End support bracket | N/A | TC1279-127F | N/A | TC1279-57D | N/A | N/A | N/A |
| 88mm tube outlet | N/A | N/A | N/A | TC1279-456 | N/A | N/A | N/A |
| Dual 88mm tube outlets | N/A | N/A | N/A | N/A | TC1279-457 | N/A | N/A |

# Tubing

YellowDuct tubing is used for feeding entering or exiting optical fibres from the ducting raceway into equipment racks. They 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.

**Square convoluted tube**    **Openable convoluted tube**    **Round convoluted tube**
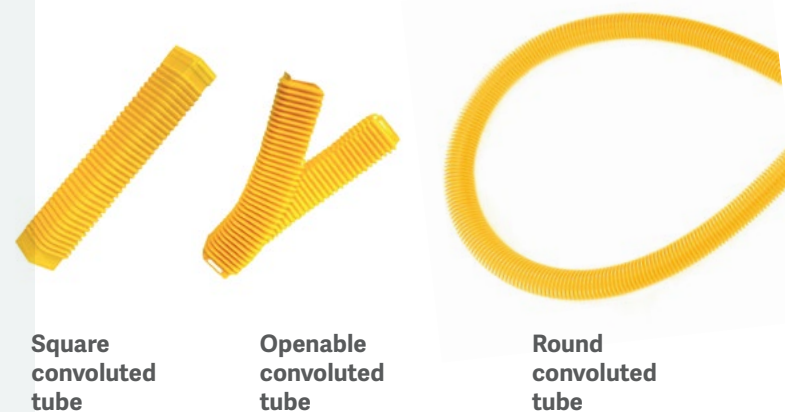
| Description | Yellow | Black |
|---|---|---|
| Convoluted tube 50mm dia (1 meter length) | TC1279-26Y | TC1279-26 |
| Convoluted tube 50mm dia (2 meter length) | TC1279-53Y | TC1279-53 |
| Convoluted tube 25mm dia (2 meter length) | N/A | TC1279-54 * |
| Convoluted tube 38mm dia (2 meter length) | N/A | TC1279-68 |
| Convoluted tube 50mm square (350mm length) | TC1279-85YEL | TC1279-85BLK |
| Openable convoluted tube with cover 50mm square (350mm length) | TC1279-85KIT | N/A |
| Convoluted tube 30mm square (350mm length) | TC1279-88 | N/A |
| Convoluted tube split 20mm dia (2 meter length) | N/A | TC1279-100 * |
| Convoluted tube split with cover 50mm dia (1 meter length) | N/A | TC1279-350 |
| Convoluted tube, flexible, 75mm ID/88mm OD x 2 metres long | TC1279-458 | N/A |
| Convoluted tube, flexible, 75mm ID/88mm OD x 1 metres long | TC1279-458-1 | N/A |
| Convoluted tube, flexible, 65mm ID/83mm OD x 2 metres long | TC1279-471 | N/A |
| Convoluted tube, flexible, 65mm ID/83mm OD x 1 metres long | TC1279-471-1 | N/A |
| Convoluted tube, flexible, 75mm ID/88mm OD x 1.15 metres long | TC1279-479 | N/A |
| Convoluted tube 63mm ID/ 65mm OD x 1.1 metres, c/w two joiners to connect to 75mm ID/88mm OD convoluted tube | TC1279-480A | N/A |
| Convoluted tubing adaptor kit, 75mm ID/ 88mm OD to 44mm ID/ 50mm OD tubing | TC1279-494KIT | N/A |

*GREY

# Reducers

YellowDuct reducers allow different size ducts to be joined together. They are available with or without covers.



**TC1279-07A**

| Main size (mm)<br>Reduction size (mm) | 50 x 50<br>30 x 30 | 100 x 50<br>50 x 50 | 100 x 100<br>50 x 50 | 100 x 100<br>100 x 50 | 220 x 100<br>100 x 100 | 300 x 100<br>220 x 100 | 600 x 100<br>300 x 100 |
|---|---|---|---|---|---|---|---|
| Reducer | TC1279-97 | TC1279-238 | TC1279-91 | TC1279-240 | N/A | TC1279-281 | TC1279-408 |
| Reducer & cover | TC1279-97A | TC1279-238A | TC1279-91A | TC1279-240A | N/A | TC1279-281A | N/A |
| Reducer right hand | N/A | N/A | N/A | N/A | TC1279-05 | N/A | N/A |
| Reducer right hand & cover | N/A | N/A | N/A | N/A | TC1279-05A | N/A | N/A |
| Reducer left hand | N/A | N/A | N/A | N/A | TC1279-07 | N/A | N/A |
| Reducer left hand & cover | N/A | N/A | N/A | N/A | TC1279-07A | N/A | N/A |

# Low profile ducting solution 220mm x 50mm (8" x 2")

The low profile duct solution can be used as a bridging adaptor and interconnection between two parallel lengths of duct where ceiling height constraints are an issue.

TC1279-461KIT includes the following:

- 2 x TC1279-461A over the top outlets
- 2 x TC1279-482 Joiners
- 1 x 0.66m length of low profile 220mm duct with cover

| Solid duct only | TC1279-392 |
|---|---|
| Solid duct with snap on cover | TC1279-392ASN |

Provides a horizontal exit for optical fibre cords, anywhere along a straight 100mm, 220mm or 300mm duct run. The unit simply fits along the edge of the duct – i.e., the side of the duct is not specially prepared or cut. The outlet curve has no ribs so there is nothing to restrict the naturally occurring free flow of optical fibre cords. By altering the length of the connecting 220mm x 50mm duct, different offset spacings for duct systems can be made. Easily installed without having to cut or prepare the side of the duct.

Low profile straight duct lengths require the use of Slotted Joiners which are simple to install.

220mm x 50mm (8" x 2") - 2m lengths

The joiner is used to connect low height, 220mm x 50mm straight ducting to a top outlet assembly, horizontal outlet.
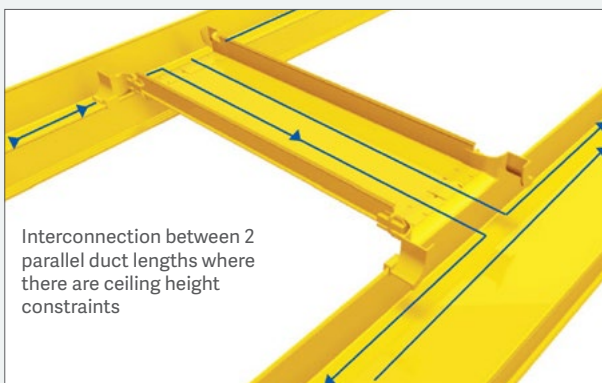


**TC1279-461KIT**
**Low profile duct system joining kit**



**Straight duct lengths**



**TC1279-482 Joiner**



**TC1279-461A Outlet**



Interconnection between 2 parallel duct lengths where there are ceiling height constraints

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# Data rack ducting & accessories

The Warren & Brown optical fibre ducting raceway is an Australian made solution for managing, routing and protecting fibre optic cords between termination equipment, patch panels and fibre optic splicing cabinets or frames. This cost effective and reliable solution has been used in telecommunications exchanges, data centres, universities, hospitals, or anywhere fibre optic cabling is present.

The ducting raceway range keeps growing and evolving as new products and solutions are developed and introduced.

## External cable entry elbow

This 90° elbow is typically used to feed an optical fibre cable into a cabinet after the cable has "broken-out" into several optical fibres where ducting is not present. The elbow is fastened to the cabinet using an M50 nut, after passing through a clearance hole. The lower end of the elbow can accept either a 38mm dia. cable; or a convoluted tube, which houses the incoming optical fibre cable. The inner radius of the elbow is 56mm, and the internal diameter is 41.5mm; so, the elbow can typically accept a cable of around 37/38mm dia.



**TC1279-434**
**Elbow, 90°, M50 X 1.5**

## Top outlet vertical drop & plastic mounting clips

The top outlet vertical drop can be attached to YellowDuct, metal tray and wire basket tray.
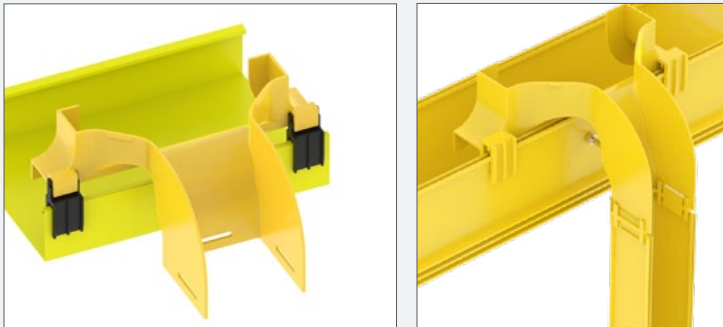


**TC1279-531ASL**
**50mm top outlet vertical drop**

This top outlet vertical drop also fits existing metal ductwork.

**TC1279-307ASLS**
**100mm top outlet vertical drop**



A pair of plastic mounting clips enables an over the top outlet (TC1279-290A & TC1279-307A) to be fitted to the existing wire basket or metal ductwork.

This enables optical fibre cords to leave the duct run at any position along its length, whilst maintaining the MBR at 30mm. The over the top outlet allows optical fibre cords to "drop-off" the duct run and feed equipment racks.



**TC1279-307S-2**
**Mounting clips**

# Drop-off solutions

These components provide different methods of allowing fibres to enter or leave the fibre optic ducting raceway. They can be purchased as kits or as individual items.

## Side spill out kit

This drop-off assembly can be installed anywhere along the length of a 100mm high duct to allow up to 80 x 2mm optical fibre cords to leave the duct horizontally or vertically (if installed on the floor of the straight duct). Use cut out tool / hole saw TC1279-604KIT with a drill to make a cut into the ducting.
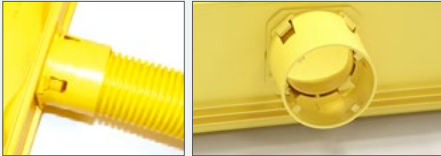


**TC1279-602A**

**Duct side spill out, straight outlet to convoluted tubing**



**TC1279-609A**

**Duct side spill out, 90˚, up / down / left / right to convoluted tubing**



## Side drop-off kits - 50 x 50mm exit

50mm (2") duct drop-off solutions are suitable for 50 x 50mm, 100 x 50mm, 100 x 100mm, 220 x 100mm and 300 x 100mm straight duct lengths.

- Use tool TC1279-50KIT to make cut-out in side of duct
- Round convoluted tube, square convoluted tube and straight duct components ordered separately
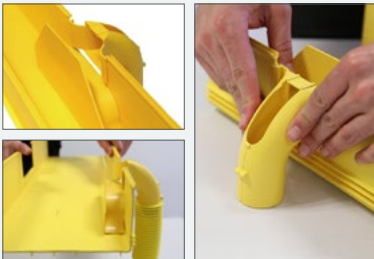


**TC1279-41KIT**

**50mm (2") side drop-off (outlet) to 50mm dia. round convoluted tube**

- Can fit approx. 80 x 2mm cables
- Also includes duct ramp



**TC1279-41A**

**50mm (2") side drop-off (outlet only)**

- Can fit approx. 80 x 2mm cables



**TC1279-89KIT**

**Side drop-off to 50mm (2") square convoluted tube**

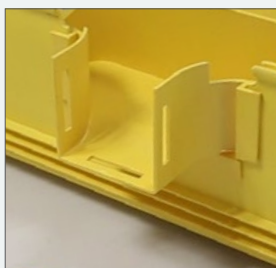- Can fit approx. 100-150 x 2mm cables
- Also includes duct ramp

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**TC1279-89A**

**Side drop-off (outlet) to 50mm square only**

- Can fit approx. 100-150 x 2mm cables.

**TC1279-93KIT**

**Side drop-off kit to 50mm ducting raceway**

- Can fit between 100-150 x 2mm cables
- Full kit for vertical drop (includes duct outlet, duct ramp, joiner and vertical elbow)
- Straight duct lengths ordered separately

**TC1279-93A**

**Side drop-off outlet to 50mm ducting raceway**

- Can fit between 100-150 x 2mm cables
- Straight duct lengths, duct ramp, joiner and elbow ordered separately

# Side drop off kits - 100 x 50mm exit

100 x 50mm duct drop-off solutions are suitable for 50 x 50mm, 100 x 50mm, 100 x 100mm, 220 x 100mm and 300 x 100mm straight duct lengths.

- Use tool TC1279-231KIT to make cut-out in side of duct.
- Straight duct components ordered separately

**TC1279-232KIT**

**Side drop-off to 100mm x 50mm ducting raceway**

- Can fit approx. 250-300 x 2mm cables
- Also includes duct ramp (TC1279-294)

\* Down elbow not included in kit. Ordered separately - TC1279-236A

**TC1279-232A**

**Side drop-off (outlet only) to 100mm x 50mm ducting raceway**

- Can fit between 250-300 x 2mm cables

# Side drop-off kits - 100 x 100mm exit

100 x 100mm duct drop-off solutions are suitable for 100 x 50mm, 100 x 100mm, 220 x 100mm and 300 x 100mm straight duct lengths.

- Use tool TC1279-231 to make cut-out in side of duct.
- Straight duct components ordered separately



**TC1279-111KIT**

**Side drop-off to 100mm x 100mm ducting raceway**

- This drop can fit between 500-600 x 2mm cables.
- Use tool TC1279-231 to make cut-out in side of duct.



**TC1279-218A**

**Side drop-off (outlet only) to 100mm x 100mm ducting raceway**

- This outlet can fit between 500-600 x 2mm cables.
- Use tool TC1279-231KIT to make cut-out in side of duct.



# Express top outlet (clip on) drop-off kits 100 x 100mm exit

100 x 100mm express top outlet drop-off solutions are suitable for 100 x 50mm, 100 x 100mm, 220 x 100mm and 300 x 100mm straight duct lengths. These style outlets simply clip onto the top of the ducting raceway, providing an express outlet (drop) along a length of ducting. No slotting, bolting or cutting is required for installing these components onto the straight duct length.

- Simply clips onto the top of a straight duct length
- Straight duct components ordered separately

**TC1279-290A**

**Express top outlet drop-off to 100mm x 100mm ducting raceway, horizontal**

- This drop can fit between 300-400 x 2mm cables.

Note: TC1279-290ASL also available which contains slots



**TC1279-307A**

**Express top outlet drop-off to 100mm x 100mm ducting raceway, vertical**

- This drop can fit between 300-400 x 2mm cables.

Note: TC1279-307ASL also available which contains slots

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# High capacity duct outlets

These duct outlet kits provide the ideal solution for high capacity optical fibre cords. Duct outlets can be placed anywhere along the duct and minimal time and effort is required to install these outlet components. This solution allows for quick installation, as less cuts are required and is also stronger, as the ribs of duct are not cut.

- Simply clips onto the top of a straight duct length
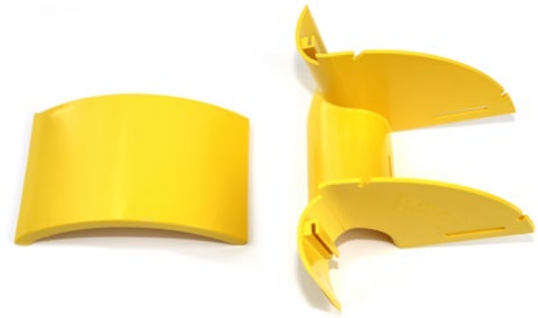- Straight duct components ordered separately



## TC1279-452A

**High capacity outlet,
100mm x 100mm (4" x 4" ) 90°**

- Provides a 90° down bend (and break-out facility) at any point in a 100mm, 220mm or 300mm duct system.
- Can accept any standard 100mm x 100mm duct item using a joiner.

Includes:
TC1279-452 (90° down body)
TC1279-453 (90° down Lid)

## TC1279-452KIT

**High capacity outlet kit, single, 100mm x 100mm (4" x 4" ) 90°**

- Provides a 90° down bend tube in a 100mm, 220mm or 300mm duct system.
- The 75mm ID/88 mm OD tube can carry either: 360 x 2mm cords; 210 x 2.4mm cords; or 160 x 3mm dia cords maximum.

Kit includes:
1x TC1279-452A
1 x 2m long convoluted tube TC1279-458
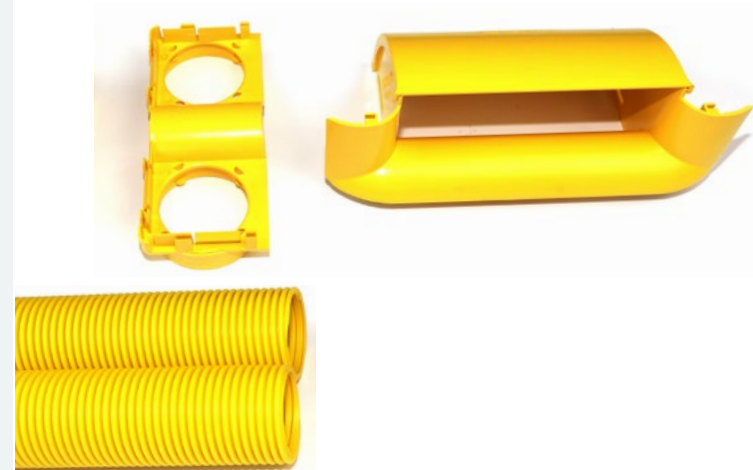1 x TC1279-456 convoluted tube outlet
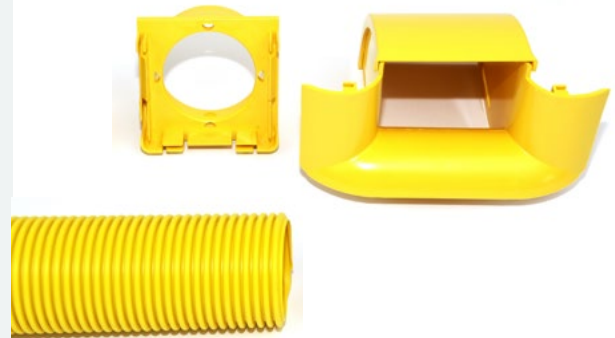
## TC1279-454KIT

**High capacity outlet kit, dual, 220mm x 100mm (8" x 4") 90°**

- Provides a 90° down bend for two large size convoluted tubes in a 100m, 220mm or 300mm duct system.
- Each 75m ID tube can carry up to 360 x 2mm cords.

Kit includes:
1x TC1279-454A
2 x 2m long convoluted tubes  TC1279-471
1 x TC1279-457 dual convoluted tube outlet

## TC1279-454A

**High capacity outlet, 220mm x 100mm (8" x 4") 90°**

- Provides a 90° down bend (and break-out facility) at any point in a 100mm, 220mm or 300m duct system.
- Can accept any standard 220mm x 100mm duct item using a joiner.

Includes:
TC1279-454 (90° down body)
TC1279-455 (90° down Lid)

# Other duct drop-off components



**TC1279-212KIT**

**Radius guide (pack of 10) to suit 30mm, 50mm, 100mm slotted duct**



**Ramp up**

**TC1279-42**     Small ramp up

**TC1279-294**     Large ramp up



**Outlet trumpet**

**TC1279-93A**    50 x 50mm

**TC1279-218A**   100 x 100mm

**TC1279-330A**   100 x 220mm

**TC1279-379A**   100 x 300mm

# Miscellaneous items

**TC1279-156**

**Universal radius guide**

This guide is a simple means of providing a 30mm radius guide that eliminates fibre stress through bending.



**TC1279-72KIT**

**Pigtail radius guide kit**

The pigtail radius guide provides a 90° bend, but the guides are interlocking so that many can be joined to form U turns, circles & spirals as required (10 per kit).



**TC1279-570KIT**

**Duct cable separator kit for 100mm, 220mm and 300mm duct**

The duct cable separator kit is installed longitudinally along the length of a duct run, to provide a separator or divider in the duct. The item is used to create separate compartments for different cords or cables.



# PVC slotted duct

This slotted duct is used for dropping off optical fibres from the overhead ducting system to racks & equipment subracks.

| Description | Part No. |
|---|---|
| 50 x 50mm x 2m | TC1279-55KIT |
| 25 x 30mm x 2m | TC1279-58KIT |
| 60 x 40mm x 2m (not slotted) | TC1279-99KIT |



**TC1279-99KIT**



**TC1279-55KIT**

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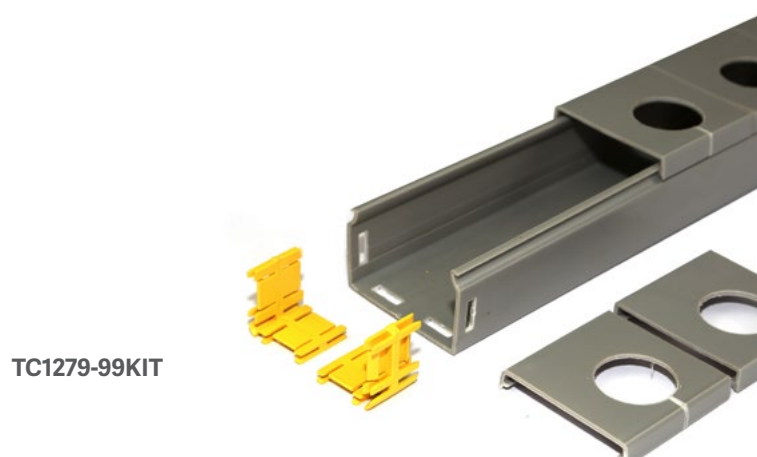
# Mounting solutions

YellowDuct mounting hardware is used to support the ducting raceway from different structures. Although the most common components are shown here, many other components that have been developed for specific applications or customer requests are also available. Mounting systems are also available for retro-fitting to existing installations. Custom components can also be manufactured to your specifications. Please contact your sales office or distributor for assistance.

## Metal mounting kits
## steel work or wall mounting

Provides vertical & horizontal mounting flexibility to steel-work or walls.

**TC1279-438A**

**600mm x 100mm duct mounting bracket assembly**

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**TC1279-103KIT**

**100mm duct support mounting bracket kit**

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**TC1279-104KIT**

**100mm duct wall mounting bracket**

The wall mounting bracket is used to attach 100mm plastic duct to any existing structure.

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**TC1279-133KIT**

**220mm duct wall mounting bracket kit**

The wall mounting bracket is used to attach 220mm plastic duct to any existing structure.

Note: Version for 100mm duct is TC1279-104KIT.

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**TC1279-161KIT**

**30, 50, 100mm wall mounting extension kit**

This flexible mounting kit is used to provide a means of attaching 30mm, 50mm and 100mm duct to any existing structure.

Note: Individual duct "C" type brackets are required in addition to this kit (see mounting hardware).

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**TC1279-183KIT**

**Mounting bracket kit, heavy duty, wall & strut**

This kit has two vertical slots suited to wall or Unistrut™ mounting and provides a single long slot to accept duct mounting brackets up to 220mm size.

Note: Individual duct "C" type brackets are required in addition to this kit (see mounting hardware).

**TC1279-152KIT**

**Dual level mounting bracket, 220mm and 100mm duct**

The dual level mounting bracket is used to mount 3 ducting systems at 2 different heights, on a common bracket; usually to allow cross over between the 3 ducting systems.

**TC1279-130KIT**

**Mounting bracket kit for 30mm, 50mm duct**

This kit is a simple and adjustable means of attaching or mounting either 50mm or 30mm duct, in either a vertical or horizontal plane.

**TC1279-78KIT**

**Mounting bracket kit for 30mm, 50mm duct**

This is simply a bracket, that can be fixed to the duct and any existing building.

**TC1279-303A**

**Side mounting bracket, heavy duty**

This side mounting bracket is used to install & secure 100mm, 220mm, 300mm duct to existing threaded rods.
Note: Used in conjunction with "C" type mounting hardware.

**TC1279-102**

**Wall mounting bracket**

**TC1279-126KIT**

**Wall mounting bracket kit, horizontal**

# Mounting hardware duct "C" type brackets

This assembly consists of a standard 30mm (50mm, 100mm, 220mm, 300 mm) duct support bracket. This assembly is used where the duct is directly mounted to flat brackets with 13mm (1/2" clearance) dia holes.

**TC1279-147A**

| Size | Part No. |
|---|---|
| 30mm | TC1279-148A |
| 50mm | TC1279-147A |
| 100mm | TC1279-16A |
| 220mm | TC1279-15A |
| 300mm | TC1279-297A |

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# Suspension kits

These suspension mounting bracket kits are used to attach either 300mm, 220mm or 100mm plastic duct to existing steelwork, from above.



**TC1279-297KIT**

**300mm heavy duty suspension duct mounting kit**

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**TC1279-297AKIT**

**300mm x 100mm duct system, mounting bracket kit, suspension type, 1/2" with threaded rod**

**TC1279-297BKIT**

**300 x 100mm duct system, mounting bracket kit, suspension type, 5/8" with threaded rod**

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**TC1279-106KIT**

**220mm duct suspension bracket kit**

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**TC1279-106KITA**

**220mm duct suspension bracket kit (including 12mm threaded rod)**

**TC1279-106KITB**

**220mm duct suspension bracket kit (including 16mm threaded rod)**

---

**TC1279-107KIT**

**100mm duct suspension bracket kit**

---

**TC1279-107KITA**

**100mm duct suspension bracket kit (including 12mm threaded rod)**

**TC1279-107KITB**

**100mm duct suspension bracket kit (including 16mm threaded rod)**

# Underfloor mounting kits

**TC1279-274**

**Under floor mounting bracket**

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**TC1279-197KIT**

**Vertical strut mounting kit**

This clamp is a means of attaching either a 220mm or 100mm duct system to (up to) 30mm (1") diameter tube or 25mm (1") square tubes in an under floor system.

Note: Used in conjunction with "C" type mounting hardware.

# Ladder rack mounting



## TC1279-370KIT

### 100, 220, 300mm Ladder rack mount kit, large

This clamp is a means of attaching either 100mm, 220mm or 300mm duct systems to 1" and 2" ladder racks.

Note: Heavy duty. Used in conjunction with "C" type mounting hardware.

## TC1279-154KIT

### Ladder rack mount assembly, 30mm and 50mm duct

These clamps are a means of fixing either 30mm and 50mm duct systems to 1.5" and 2" ladder racks.

Note: Used in conjunction with "C" type mounting hardware.

## TC1279-155KIT

### Ladder rack mount kit, 100mm and 220mm duct

These clamps are a means of fixing either 100mm, 220mm duct systems to 1.5" and 2" ladder racks.

Note: Used in conjunction with "C" type mounting hardware.

## TC1279-572KIT

### Support bracket, 220mm x 100mm duct

This supporting bracket set, enables a 220mm x 100mm duct system to be installed in the aisle, below the overhead super structure, in front of the racks to be serviced.

# Unistrut™ mounting

## TC1279-171

### Mounting bracket adaptor

This bracket fits over 2" (50mm) square Unistrut™ section to provide a strong fixing position for: 300mm, 220mm and 100mm duct mounting brackets.

Note: Used in conjunction with "C" type mounting hardware.

## TC1279-170

### Bracket to suit Siemens frame

## TC1279-59
### Bracket to suit 41mm strut

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# "C" Rail mounting kits

These kits are attached to the rail by two screws. Multiple holes provide vertical adjustment in 21mm increments.

- Simple clamp system adapts to "C" rail
- Suits 100mm, 220mm or 300mm duct systems
- Includes: nuts, screws and washers

## TC1279-155AKIT

**"C" rail mounting kit, 100mm duct**

Note: Includes 100mm duct bracket.

## TC1279-155BKIT

**"C" rail mounting kit, 220mm duct**

Note: Includes 220mm duct bracket.

## TC1279-155CKIT

**"C" rail mounting kit, 300mm duct**

Note: Includes 300mm duct bracket.

# Raised mounting kits

## TC1279-13A

**Mounting bracket assembly, 220mm duct with M12 threaded rod**

The mounting bracket provides an adjustable mounting mechanism for the 220mm plastic ducting system.

## TC1279-14A

**Mounting bracket assembly, 100mm duct with M12 threaded rod**

The mounting bracket provides an adjustable mounting mechanism for the 100mm plastic ducting system.

## TC1279-129KIT

**Mounting plate kit, 30mm, 50mm duct**

Is used for quick and easy attaching to 30mm & 50mm duct.

## Ducting slotting tool - foot operated

**Features & benefits:**

- Ducting can be easily aligned and positioned on slotting jig
- Fast and easy to use slotting mechanism which slots in seconds
- Compact, easy to transport unit which only weighs 8kg
- Steady and robust platform
- Ergonomically designed, no stress or heavy manual operation required as it only requires leg power
- Conforms to OH&S standards
- Repeatedly produces accurate slots
- Slots an end of duct in less than 30 seconds

Note: Ideal for large installations.

**Slots the following duct sizes:**

| Duct size (mm) | Duct size (inches) | Part No. |
|---|---|---|
| 100mm x 100mm | 4" x 4" | TC1279-23 |
| 220mm x 100mm | 8" x 4" | TC1279-21 |
| 300mm x 100mm | 12" x 4" | TC1279-275 |

| Part No. | Description |
|---|---|
| TC1279-500KIT | Foot operated duct slotting tool (with tool box) |
| TC1279-500-13 | Tool box - suit foot slotter (tool box only) |

## Side slotting tool

The slotting tool is used to make a small slot in the bottom and both sides at the end/s 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.
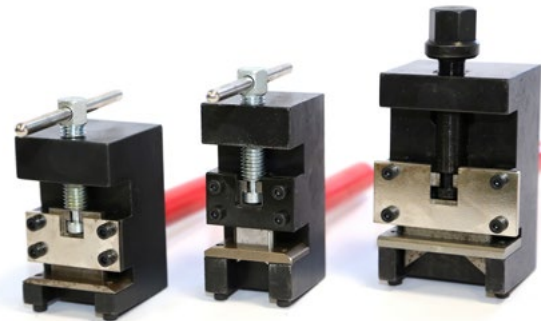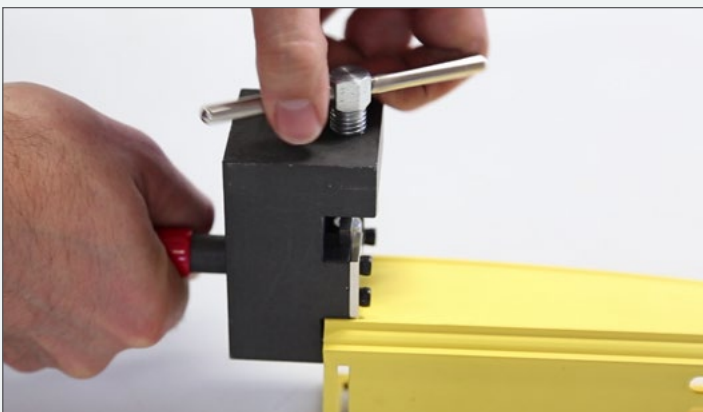
**TC1279-118**       **TC1279-121A**       **TC1279-51**

| Part No. | Description |
|---|---|
| TC1279-230 | for 100mm x 50mm duct (side slots only) |
| TC1279-51 | for 100mm x 50mm duct (base slots only), for 220mm x 100mm, 300mm x 100mm, 100mm x 100mm |
| TC1279-118 | for 50mm duct |
| TC1279-121A | for 30mm duct |

https://mulder-hardenberg.com/en/solutions/fiber-optic-cable-tray/

# Ducting hydraulic hand held slotting tool

The hand held hydraulic duct slotting tool is a revolutionary design that takes the stress and effort out of slotting duct. Take advantage of this new method of safely and easily slotting ducting, which will improve the efficiency of your installations and save you and your customer time and money.

**Features & benefits:**

- No need to exert excessive force since the unit is hydraulic powered
- Safe & easy to use
- Ergonomically designed
- Compact design which is easy to transport and doesn't require excess storage space.
- Saves you time by slotting duct quickly
- Allows you to slot an end of duct in less than 1 minute
- Lightweight, only 2kg
- Repeatedly produces accurate slots
- Slots a variety of duct sizes from 100mm x 50mm up to 300mm x 100mm
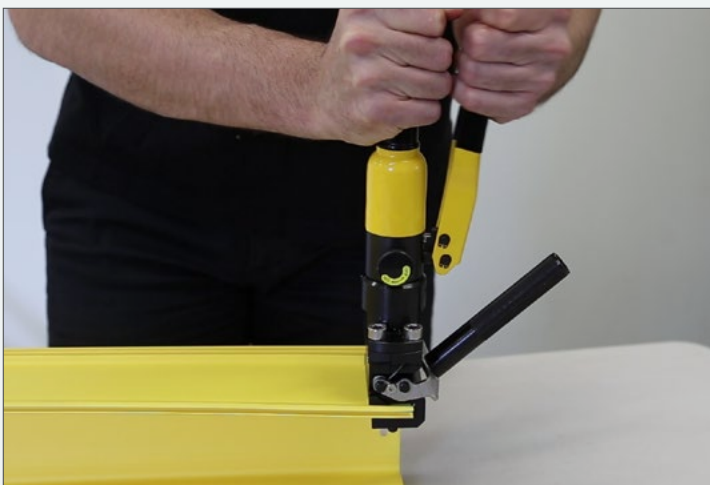
**TC1279-501**
**100mm hand hydraulic tool**

| Part No. | Description |
|---|---|
| TC1279-501 | 100mm hand hydraulic tool |
| TC1279-501-13S | 100mm hand hydraulic tool head |
| TC1279-501KIT | 100mm hand hydraulic tool kit with tool box |

**Slots the following duct sizes:**

| Duct size (mm) | Duct size (inches) | Part no. |
|---|---|---|
| 100mm x 100mm | 4" x 4" | TC1279-23 |
| 220mm x 100mm | 8" x 4" | TC1279-21 |
| 300mm x 100mm | 12" x 4" | TC1279-275 |

https://mulder-hardenberg.com/en/solutions/fiber-optic-cable-tray/

# Mitre kits

Mitre boxes are used to provide a means of producing an accurate and straight cut on ducting, essential for correct alignment of the slotting tools and joiners.

**TC1279-118-07**

**Mitre box duct, 50mm, 30mm**



**TC1279-MITRE**

**Mitre box duct 300mm, 220mm, 100mm**



**TC1279-483A**

**Cut out jig, for drop-offs and break out guides - suitable for all ducts from 50mm to 300mm**



# Duct spill out tool

**TC1279-604KIT**

**Duct spill out and installation template**

This kit is used to cut the 60mm hole in the side and bottom of the duct to accommodate drop-outs (TC1279-602A, TC1279-609A)
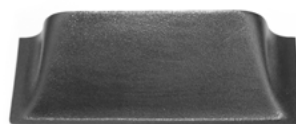
Note: If optic fibre cords already in duct, use TC1279-50-3 to protect the cords.



# Miscellaneous items

**100X060
Panel saw (jack)**



**TC1279-50-3
Fibre spreader and protector**
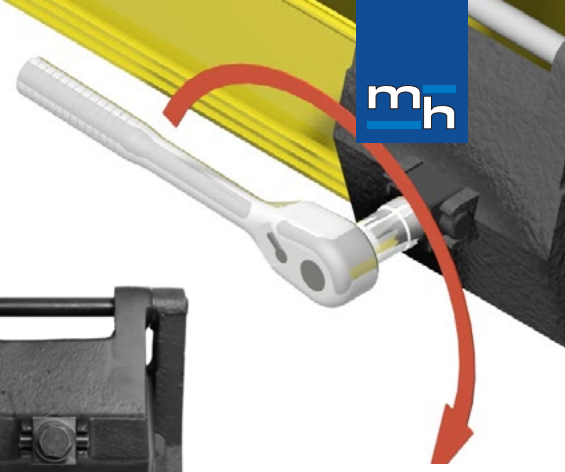
**97X01
Wrench, ratchet 1/2" drive**

**62X001
Socket**

# Cut out tools

Cut out tools are used to cut notches in the side of the duct to accommodate drop-outs. They are supplied with a fibre spreader to protect previously installed fibres when using the tools.

**TC1279-231**

**Cut out tool, 150mm**



**TC1279-50**

**Cut out tool, 90mm**



# Duct tool kits



**TC1279-51A**          **TC1279-50KIT**

| Description | Part No. | + more details | TC1279-140KIT<br>30, 50mm slotting kit | TC1279-118KIT<br>50mm slot & mitre kit | TC1279-51A<br>100, 220mm slot tool & wrench kit | TC1279-51KIT<br>100, 220, 300mm cut & slot kit | TC1279-50KIT<br>100, 220mm cut & slot kit | TC1279-TKIT<br>Combination kit | TC1279-231KIT<br>100, 220, 300mm cut out tool kit |
|---|---|---|---|---|---|---|---|---|---|
| Mitre kits | TC1279-118-07 | 30/50mm duct | YES | YES | | | | YES | |
| | TC1279-MITRE | 100/220/300mm duct | | | | YES | | YES | |
| Tool box | 60X013 | | | | YES | | | | |
| | 60X016 | | YES | YES | | | | | |
| | 60X003 | | | | | | YES | YES | |
| | 60X002 | | | | | | | | YES |
| Slotting tool | TC1279-121A | for 30mm | YES | | | | | YES | |
| | TC1279-118 | for 50mm | YES | YES | | | | YES | |
| | TC1279-51 | for 100x50mm (sides), 100/220/300mm | | | YES | YES | | YES | |
| | TC1279-230 | for 100x50mm (base) | | | | | | YES | |
| Cut out tool | TC1279-50 | 90mm cut | | | | | YES | YES | |
| | TC1279-231 | 150mm cut | | | | | | | YES |
| Wrench ratchet | 97X01 | small | | | YES | YES | YES | YES | |
| | 97X02 | large, 375mm handle | | | | | | | YES |
| Socket | 62X001 | | | | YES | YES | YES | YES | YES |
| Fibre spreader | TC1279-50-3 | | | | | | YES | YES | YES |
| Grease stick | 70X003 | | YES | YES | YES | YES | YES | YES | YES |
| Panel saw | 100X060 | | | | | YES | | YES | |