






**1. Product Listing**

<b>Y Closure</b>		
<b>Product Code</b>	<b>Dimensions</b>	
200145 032	32mm/32mm/32mm Y Closure	
200145 035	40mm/40mm/16mm Y Closure	
200145 036	40mm/40mm/2 x 16mm Y Closure	
200145 037	40mm/40mm/25mm Y Closure	
200145 038	40mm/40mm/32mm Y Closure	
200145 039	40mm/32mm/32mm Y Closure	
200145 040	40mm/40mm/40mm Y Closure	
200145 046	50mm/50mm/16mm Y Closure	
200145 047	50mm/50mm/25mm Y Closure	
200145 048	50mm/50mm/32mm Y Closure	
200145 049	50mm/50mm/40mm Y Closure	
200145 050	50mm/50mm/50mm Y Closure	
TBC	60mm/40mm/40mm Y Closure	
TBC	60mm/60mm/40mm Y Closure	
TBC	60mm/60mm/60mm Y Closure	
<b>T Closure</b>		
<b>Product Code</b>	<b>Dimensions</b>	
200130 032	32mm/32mm/32mm T Closure	
200130 035	40mm/40mm/16mm T Closure	
200130 036	40mm/40mm/2 x 16mm T Closure	
200130 037	40mm/40mm/25mm T Closure	
200130 038	40mm/40mm/32mm T Closure	
300130 039	40mm/32mm/32mm T Closure	
200130 040	40mm/40mm/40mm T Closure	
TBC	50mm/50mm/2x20mm T Closure	
TBC	50mm/50mm/32mm T Closure	
TBC	50mm/50mm/50mm T Closure	
<b>Elongated Closure, 4 way (H)</b>		
<b>Product Code</b>	<b>Dimensions</b>	
20 0170 032	32mm/32mm/32mm/32mm H Closure	
20 0170 036	40mm/40mm/2 x 16mm/2x 16mm H Closure	
20 0170 039	40mm/40mm/32mm/32mm H Closure	
20 0170 040	40mm/40mm/40mm/40mm H Closure	
TBC	50mm/50mm/50mm/50mm H Closure	

## Straight In-Line, 2 way

Product Code	Dimensions	
NEW	32mm Straight In-line Enclosure	
	32mm Straight In-line Elongated Enclosure	
NEW	40mm Straight In-line Enclosure	
	40mm Straight In-line Elongated Enclosure	
9027	50mm Straight In-line Enclosure	
	50mm Straight In-line Elongated Enclosure	

## Port Reducers

Product Code	Dimensions	
TBC	25/16mm reducer	
9048	40/2x16mm double outlet	
TBC	40/30-20 Universal Grabring	
TBC	40/32mm reducer	
TBC	50x2x20mm reducer	
9047	50/32mm reducer	
9046	50/40mm reducer	
TBC	60/40mm reducer	

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## 2. Description

The closures listed above, are used in the access network where the Y/ T/ H connector connects the trunk tube to the customer premises. For this purpose a Y/ T/ H connector is inserted into the protective tube (trunk) which contains a number of micro ducts. In the Y/ T/ H connector one or more of the micro ducts are cut and connected to the branch tube. In this way a dedicated link is obtained to the customers premises for either blowing or pulling of cables.

## 3. Protective and Branch Duct

The input and output ports of the Y connector shall adequately fit the protective and branch ducts respectively.

Protective Duct specifications are;

	<b>Outer Diameter</b>	<b>Material</b>
25mm Protective Duct	25.0mm, - 0.0, +0.3mm	HDPE
40mm Protective Duct	40mm, -0.0 + 2.5mm	HDPE
50mm Protective Duct	50mm, -0.0 + 0.4mm	HDPE
63mm Protective Duct	63mm, -3.0 + 0.4mm	HDPE

## 4.0 Y/ T/ H Connector

The connector shall consist of two halves which can be easily aligned and assembled together and manually tightened.

The outlet of the branch tube shall be at an angle of 45° with the axis of the connector body. The dedicated customer guide tube inside the connector must follow a smooth curve with a minimum bend radius of 25cm.

Both protective duct caps must be of a Splittable type and shall have sufficient strength to guarantee long term performance and repeated assembly. The front of the cap facing the incoming protective duct will have a conical contour to reduce the possibility of the connector snagging against obstruction which may exist in location. The caps shall provide up stands at 90 to the tongue and groove sections to assist manual tightening.

The branch tube cap shall be a one piece molding.

The threads on all caps shall be single start to ease assembly.

The connector shall have the necessary sealing arrangement to protect the inner cavity against significant ingress of mud, sand and debris.

The connector must be able to be assembled and disassembled without the use of tools.

### 4.1 Material

The connector body and caps shall be constructed in HDPE/High Impact Polypropylene and the protective and branch tube grab rings in ABS/POM. The following performance tests will demonstrate satisfactory design performance and material selection will ensure good lifetime and stability of performance characteristics.

### 4.2 Performance Tests

The Y/ T/ H connector shall withstand the following mechanical and environmental tests at ambient temperature 20°C:

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### 4.2.1 Tensile Test

The purpose of the test is to establish the minimum force necessary to destroy the integrity of the assembly.

Connect two pieces of protective tube and a short section of branch tube. Ensure all the connections are tightened. Place the assembly in a tensometer connecting the two pieces of protective tubes to the opposing jaws and perform a destructive test at a rate of extension of 25mm/minute.

Record the maximum force before failure and note also the failure mode. See Table for minimum force for the ducts

Protective Duct Size	Minimum Acceptable Force
25mm	1500N
40mm	1500N
50mm	1500N
60mm	2000N

### 4.2.2 Impact Test

The purpose of this test is to prove the resistance of the Y connector against impact at low temperature.

Connect two pieces of 40mm duct and a short section of branch tube. Ensure all the connections are tightened. Pre-condition the assembly for two hours at a temperature of - 5° +/- 2° C. Place the assembly on the ground and subject it to an impact force using a tup of 1kg and a height of 2.0 metres.

The assembly is deemed to have passed the test if the assembly has no fracture lines. Slight localized indentations are permissible.

### 4.2.3 Pressurization

The purpose of this test is to ensure that the assembly protects against ingress of foreign matter.

Connect two pieces of protective duct and a section of branch tube. Ensure all the connections are tightened. The assembly should be submerged in a mixture of mud/sand and rubble and a head of water of 1 metre. Ensure that there is no contamination from the free ends of the protective and branch tube. Pre-condition for 24 hours and then clean off all the external contamination. Open the assembly and record condition.

The assembly is deemed to have passed the test if there is minimal debris present.

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