EMTELLE HomeConnect™
External/Internal Cable Solution

Customer External Lead In Kit Options:
- UK Standard
- Alternative 1
- Alternative 2
- Alternative 3
- Alternative 4

Push or pull the product into the existing buried duct to the Splice point.

Access Chamber
Or Street Cabinet
Gas Block Restraint

Existing Buried Duct
QWKConnect Product
Customer Connection Point
Internal Lead In Kit
Internal Customer Connection Point (CCP)

- Internal Customer Connection Point (CCP) (Reference 74428 without splice tray or pigtail)

- This connection point offers protection to the SC connector until the fibre connection equipment is installed. This is located internally anywhere within the home.

- When the network provider’s equipment is installed an SC patch cord can simply be connected between the CCP and Optical Network Termination (ONT).
2 fibre core - Pre-connectorised ‘Adjustable’ Internal / External fibre cable

- 2 fibre core – bare ended for external closure side (both ends can be connectorized if required).
- 3mm LFH Jacket.
- 5mm PE Jacket (available in brown, black, grey etc) that is ‘moveable’ over 3mm jacket.
- SC or LC Connectors for plugging into Home ONT.
- Total Lengths consisting of 5m, 20m, 30m and 50m.
- PE sheath to be used outside only so pull back accordingly.
- ‘Unique Slideable’ external jacket for quick indoor and outdoor cable preparation.

See Datasheet
Internal Lead In Kit

- Internal Lead In Kit which covers the exit point of the fibre connection from the home.
- 1 x ABT1820 Internal Lead in
OpenReach External Customer Lead in Kit

- 1 x ABT1930 External Lead in
- 1 x FBT0131 Capping 25A
- 1 x FBT0321 Connector bend No.4

- Changeover from LFH to PE occurs between the internal and external lead in kits.
Alternative 1 External Customer Lead in Kit

- 1 x Cable Guard with Cap (various colours available).
  - Changeover from LFH to PE occurs in the cap.
  - Cable Guard is fitted at the exit point to protect tube route to the existing buried duct.
Alternative 2 External Customer Lead in Kit

1 x Cable Guard Wall Plate (various colours available).

- Changeover from LFH to PE occurs in the customer lead in prior to entering the Wall Plate.
- The PE tube is routed round the outskirts of the building to the existing buried duct.
Alternative 3 External Customer Lead in Kit

1 x Customer Connection Enclosure, CCE, P/C 74433
1 x Cable Guard (various colours available).

- Changeover from LFH to PE occurs in the CCE.
- Cable Guard is fitted below the CCE to protect tube route to the existing buried duct.

See Datasheet
Alternative 4 External Customer Lead in Kit

1 x Customer Connection Enclosure, CCE, P/C 74433

- Changeover from LFH to PE occurs in the CCE.
- The PE tube is routed round the outskirts of the building to the existing buried duct.

See Datasheet
Water Blocking Restraint at splice location

1 x 5mm Gas Block Connector, P/C 6091
1 x 3mm Water Block Connector, P/C 7314

- 5mm Gas Block connector fitted when the 5mm microduct enters the Closure (the 3mm LFH must protrude the gas block by approx. 30mm when activated.

- A 3mm Water Block connector is then fitted.

- A further section of 3mm microduct fitted to the water blocking connector to transport the fibre to the tray (this can be taken from the unused 3mm product that was ring cut at Cabinet or Access Chamber).
FibreFlow™
Customer Connection Point

Product Description
Customer Connection Point providing a fibre termination point inside a residential property. The customer connection point comes complete with a pre-installed pigtail, connector and adaptor.

Features
- Body Manufactured from Self-extinguishing ABS UL-0
- Can be fitted directly to a wall or a standard UK 1-gang backbox
- Compact design
- Available space to accommodate second pigtail with connector and adaptor
- Room to accommodate 2x Fusion Slices
- Room for excess fibre storage
- Company Logo to suit customer requirements
- Modern Design

Technical data
Dimensions – 83mm Wide x 105mm High x 25mm Deep
Main Body Material – Self-extinguishing ABS UL-0
Body Securing Screw – M4 Stainless Steel
Pre-Installed pigtails – G657A2 with B grade SC/APC with connector and adaptor (Duplex LC also available)

Kit Contents:
1 x Back body and spice/storage tray
1 x Front cover
1 x G657A2 900 micron pigtail with connector and adaptor
4 x tie-wraps (2x80mm)
Foam Band (80mm x 15mm)
2x wall screw (5mm) and 2x expansion dowels (5mm)
3x grommets (3-7mm)
Stainless steel M4 nut and screw

Packaging and Labelling
All products suitably packaged in recyclable materials and clearly labelled with Emtelle Product Code and Description where possible.

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Pre-Connectorised Fibre Microduct System

Product Description

This product is intended for use where an installer needs a quick and easy one stop solution for an internal/external drop cable installation. The product comes pre-terminated with a LC or SC connector at the house end. There is a 3mm LFH sheath for internal use, which is covered by a 5mm PE sheath for external use, both protecting the fibre inside the product.

Features

Product pre-connectorised with LC/APC or SC/APC connectors
Strong flexible PE black outer sheath (colour options)
Discreet, small and flexible LFH inner sheath
Quick Installation
Low skill Resource requirement
Low installation equipment cost
Changeable internal LFH length (slide the PE sheath back to suit)

Typical Installation Example

The installation will start internally. The Customer Connection point (CCP) will be installed on the wall at the agreed location. The PE outer sheath will be transitioned along the 3mm LFH cable (towards the outside) exposing enough LFH tube to route internally to the customer lead in point. The SC or LC connector at the house end must be plugged into the CCP to protect the connector. The product is then pushed through the lead in point to the outside of the building. The sheath changeover point (LFH to PE) must be done as the product exits the customer lead in point. The product is then pushed or pulled to the Street cabinet or Access chamber where any excess PE outer sheath can be removed to expose the Fibre unit for splicing.

Microduct Specification

<table>
<thead>
<tr>
<th>Material</th>
<th>O.D. Nom</th>
<th>I.D. Nom</th>
<th>Weight</th>
<th>Min Bend Rad</th>
<th>Max Tension</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE</td>
<td>5mm</td>
<td>3.5mm</td>
<td>9.4g/m</td>
<td>65mm</td>
<td>60N</td>
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</table>

Pre-Installed Fibre Specification

<table>
<thead>
<tr>
<th>Material</th>
<th>O.D. Nom</th>
<th>No. of fibres</th>
<th>ITU-T</th>
</tr>
</thead>
<tbody>
<tr>
<td>LFH</td>
<td>3mm</td>
<td>1</td>
<td>G657A2</td>
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</table>
Product Details

### Product Codes and Available Lengths

<table>
<thead>
<tr>
<th>Emtele Part Number</th>
<th>Duct Type</th>
<th>Construction Type</th>
<th>Product Length</th>
<th>Description</th>
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<tbody>
<tr>
<td>74482</td>
<td>Internal/external 3.0mm Nom LFH / 5.0mm Nom PE</td>
<td>SC/APC - Bare</td>
<td>5M</td>
<td>5/3.5mm Black SC/APC to Bare HomeConnect 5M</td>
</tr>
<tr>
<td>74483</td>
<td>Internal/external 3.0mm Nom LFH / 5.0mm Nom PE</td>
<td>SC/APC - Bare</td>
<td>10M</td>
<td>5/3.5mm Black SC/APC to Bare HomeConnect 10M</td>
</tr>
<tr>
<td>74484</td>
<td>Internal/external 3.0mm Nom LFH / 5.0mm Nom PE</td>
<td>SC/APC - Bare</td>
<td>20M</td>
<td>5/3.5mm Black SC/APC to Bare HomeConnect 20M</td>
</tr>
<tr>
<td>74485</td>
<td>Internal/external 3.0mm Nom LFH / 5.0mm Nom PE</td>
<td>SC/APC - Bare</td>
<td>30M</td>
<td>5/3.5mm Black SC/APC to Bare HomeConnect 30M</td>
</tr>
<tr>
<td>74486</td>
<td>Internal/external 3.0mm Nom LFH / 5.0mm Nom PE</td>
<td>SC/APC - Bare</td>
<td>40M</td>
<td>5/3.5mm Black SC/APC to Bare HomeConnect 40M</td>
</tr>
<tr>
<td>74487</td>
<td>Internal/external 3.0mm Nom LFH / 5.0mm Nom PE</td>
<td>SC/APC - Bare</td>
<td>50M</td>
<td>5/3.5mm Black SC/APC to Bare HomeConnect 50M</td>
</tr>
<tr>
<td>74489</td>
<td>Internal/external 3.0mm Nom LFH / 5.0mm Nom PE</td>
<td>LC/APC - Bare</td>
<td>5M</td>
<td>5/3.5mm Black LC/APC to Bare HomeConnect 5M</td>
</tr>
<tr>
<td>74490</td>
<td>Internal/external 3.0mm Nom LFH / 5.0mm Nom PE</td>
<td>LC/APC - Bare</td>
<td>10M</td>
<td>5/3.5mm Black LC/APC to Bare HomeConnect 10M</td>
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<tr>
<td>74491</td>
<td>Internal/external 3.0mm Nom LFH / 5.0mm Nom PE</td>
<td>LC/APC - Bare</td>
<td>20M</td>
<td>5/3.5mm Black LC/APC to Bare HomeConnect 20M</td>
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<tr>
<td>74492</td>
<td>Internal/external 3.0mm Nom LFH / 5.0mm Nom PE</td>
<td>LC/APC - Bare</td>
<td>30M</td>
<td>5/3.5mm Black LC/APC to Bare HomeConnect 30M</td>
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<tr>
<td>74493</td>
<td>Internal/external 3.0mm Nom LFH / 5.0mm Nom PE</td>
<td>LC/APC - Bare</td>
<td>40M</td>
<td>5/3.5mm Black LC/APC to Bare HomeConnect 40M</td>
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<tr>
<td>74494</td>
<td>Internal/external 3.0mm Nom LFH / 5.0mm Nom PE</td>
<td>LC/APC - Bare</td>
<td>50M</td>
<td>5/3.5mm Black LC/APC to Bare HomeConnect 50M</td>
</tr>
</tbody>
</table>

Packaging and Labelling

All products suitably packaged and clearly labelled with Emtele Product Code and Description where possible.

Change documentation

UK_DS_HomeConnect Issue 1 Release date: JM310119
**FibreFlow™**

**Customer Connection Enclosure (CCE)**

**Product Description**

The Customer Connection Enclosure (CCE) has been designed as a Building Entry Point (BEP) to provide a fibre termination and network demarcation point external to the connected premise in a Fibre to the Home (FTTH) network. In addition to providing an external test point the enclosure will also store up to a maximum of 50m of 1.1mm cable.

The CCE has an IP54 sealing performance with 6 entry/exit ports at the bottom of the enclosure which is suitable for cables or ducts up to a maximum diameter of 7mm. A loop through facility allows for single fibre elements to be removed and spliced whilst the remaining fibres can be fed on to the next connection point. A single port in the rear of the closure allows for fibre to be passed through the wall into the customer premises. The CCE is the same width as a brick blow-out cover which will mask any unsightly bricks damaged by drilling through the wall from the inside of the house.

Mechanical fixing is provided to secure all incoming/outgoing cables/blown fibre ducts and to provide strain relief where necessary. Internal positive fibre management and fibre retention clips maintain a minimum 30mm bend radius throughout.

The CCE manages up to 2 SC simplex or LC duplex adaptors and has features to secure a maximum of 4 x 3A splices.

The lid is hinged allowing quick and clear access to the internal fibre for splicing and termination and the lid can be replaced if damaged.

The CCE can be supplied pre-loaded with fibre adaptors and pigtails as required.
Features

- 2 x SC Simplex or LC Duplex Adaptors
- Fibre Management for 4 x 3A splices
- Integral positive fibre management and storage capacity
- 6 inbound/outbound access points
- Through the wall capability
- Loop through facility
- Tamper-proof fitting - captive screw and nut
- IP54 Rated

Technical data

Dimensions – 130mm (W) x 263mm (H) x 37mm (D)
Main Body Material – Acrylonitrile Butadiene Styrene, UV stabilised (ABSUV)

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**Fibreflow accessories**

**Product Title**  Various Cable Guards

**Product Code**  listed in the table

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**Product Description**

A Cable Guard is a plastic cable protection capping profile to protect cables on telegraph poles and walls.

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**Features**

- Protection of vertical cable runs on telegraph poles, fences and walls
- Supplied in 3.00m lengths (unless stated otherwise)
- Highly shock resistant
- Easily installed
- Cable Guard is lightweight and easy to transport
- All Cable Guard is supplied with screw fixing holes for easy installation
- Cable Guard can also be used to protect other utility supplies on walls i.e. gas, oil, water

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**Materials**

Manufactured in black uPVC with fixing holes. Other colours and lengths are available on request.

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**QA Testing**

Meet impact requirements of BSEN50086-2-4

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**Product Table**

<table>
<thead>
<tr>
<th>Product Code</th>
<th>A diameter (Width) MM</th>
<th>B diameter (Depth) MM</th>
<th>C dimension (Thickness) MM (Minimum)</th>
<th>D dimension (Spigot) MM</th>
<th>E dimension (Length) MM</th>
<th>Colour</th>
<th>Print Details</th>
<th>Pack Qty</th>
<th>Pallet Qty</th>
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<tr>
<td>9493</td>
<td>19</td>
<td>19</td>
<td>2</td>
<td>15.5</td>
<td>3000</td>
<td>Black</td>
<td>None</td>
<td>10</td>
<td>TBC</td>
</tr>
<tr>
<td>9494</td>
<td>40</td>
<td>40</td>
<td>2</td>
<td>24.5</td>
<td>3000</td>
<td>Black</td>
<td>None</td>
<td>10</td>
<td>1,600</td>
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<tr>
<td>9494SW</td>
<td>40</td>
<td>40</td>
<td>2</td>
<td>24.5</td>
<td>1200</td>
<td>White</td>
<td>None</td>
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<td>1,350</td>
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<td>9495</td>
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<td>55</td>
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<td>850</td>
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<td>9496</td>
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<td>80</td>
<td>2</td>
<td>23</td>
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<td>5</td>
<td>850</td>
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<td>9682</td>
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<td>2</td>
<td>17.5</td>
<td>3000</td>
<td>Black</td>
<td>None</td>
<td>10</td>
<td>2,000</td>
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</tbody>
</table>
Application

Power, Telecommunications, & General Purpose.

Packaging and Labelling Instructions

Packed in suitable UV stabilised Poly sack. Labelled with Emtelle Code, product description, amount per bag (see table on page 1 for bag quantities).

END OF SPECIFICATION

Change documentation

Issue 1 Release date: 25-11-2011
Fibreflow Blown Fibre
Passive Water-block Connectors

PRODUCT DESCRIPTION:
Details of the push fit passive* connectors for water-blocking at various locations, especially building entry. These push fittings are sized to match the tube diameters. The fittings are pushed onto a clean-cut tube end and make a seal with internal O-ring(s). If the tube is pulled away from the connector, internal teeth and a tapered body cause the tube to be gripped tighter. Removal of the tube is achieved by pressing the collet inwards.

Water-block connectors are fitted with a passive ‘on-size’ internal rubber seal, made to match the size of the fibre unit or fibre cable used. The waterblock connector is fitted after fibre blowing, first sliding over the exposed fibre unit/cable, then plugging onto the tube that carries it. Water is then prevented from leaking past the installed fibre unit or cable. Emtelle manuals explain more on water-block connector features and use.

*‘Passive’ WB connectors are not suitable for blowing through – indeed most shown below are equivalent to an end cap + seal. ‘Active’ connectors have an open rubber insert, which do permit blowing through. The seal can then be screwed down onto the FU/cable to make a water block.

NB: These ‘cap’-style WB connectors cannot be used as end caps, as they have a hole in the cap.

MATERIALS (typical):
- BODY: acetal copolymer, impact resistant
- COLLET: acetal copolymer, stainless steel teeth
- O-RINGS: nitrile rubber
- WATER SEAL: silicone rubber (fixed size)

PRODUCT DETAILS: (all dimensions approximate)

<table>
<thead>
<tr>
<th>style</th>
<th>emtelle code</th>
<th>type</th>
<th>To fit FU/cable</th>
<th>diameter</th>
<th>length</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Image" /></td>
<td>7314</td>
<td>3 x 3 std WB, 3mm tube both ends</td>
<td>2fu, 4fu</td>
<td>9mm</td>
<td>26.5mm</td>
</tr>
<tr>
<td><img src="image2.png" alt="Image" /></td>
<td>70517</td>
<td>3mm WB ‘cap’ (tube one end only)</td>
<td>2fu, 4fu</td>
<td>7.6mm</td>
<td>12mm</td>
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<tr>
<td><img src="image3.png" alt="Image" /></td>
<td>70508</td>
<td>4mm WB ‘cap’ (tube one end only)</td>
<td></td>
<td>1.8mm</td>
<td></td>
</tr>
<tr>
<td><img src="image4.png" alt="Image" /></td>
<td>6089</td>
<td>5 x 5 std WB, 5/3.5mm tube both ends</td>
<td>2fu, 4fu</td>
<td>11.5mm</td>
<td>24.5mm</td>
</tr>
<tr>
<td><img src="image5.png" alt="Image" /></td>
<td>70509</td>
<td>7mm WB ‘cap’ (tube one end only)</td>
<td></td>
<td>1.8mm</td>
<td></td>
</tr>
<tr>
<td><img src="image6.png" alt="Image" /></td>
<td>70510</td>
<td>7mm WB ‘cap’ (tube one end only)</td>
<td></td>
<td>4mm</td>
<td></td>
</tr>
<tr>
<td><img src="image7.png" alt="Image" /></td>
<td>6090</td>
<td>8 x 5 WB adaptor. It contains no seal, but enables 8mm tube to be connected to a 5mm waterblock connector</td>
<td>2fu, 4fu</td>
<td>16mm</td>
<td>38.5mm</td>
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<tr>
<td><img src="image8.png" alt="Image" /></td>
<td>70511</td>
<td>10mm WB ‘cap’ (tube one end only)</td>
<td></td>
<td>5.5mm</td>
<td></td>
</tr>
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</table>

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<table>
<thead>
<tr>
<th>style</th>
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<th>type</th>
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<th>diameter</th>
<th>length</th>
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<tbody>
<tr>
<td></td>
<td>70512</td>
<td>12mm WB 'cap' (tube one end only)</td>
<td>6.0mm</td>
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<td>70513</td>
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<td>7.0mm</td>
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<td></td>
<td>70514</td>
<td>14mm WB 'cap' (tube one end only)</td>
<td>6.0mm</td>
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<tr>
<td></td>
<td>70599</td>
<td>14mm WB 'cap' (tube one end only)</td>
<td>7.0mm</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**PERFORMANCE:** (data implies nylon tube to BS 5409 unless otherwise stated)

1. **Temperature:**
   - Minimum working: -20°C
   - Maximum working: +65°C

2. **Seal Pressure**
   - Sealing pressure on tube: 1m water head
   - Water-block sealing pressure: 1m water head

3. **Insertion force:** 50N max (5kg)

4. **Retention force:**
   - 55N min (5mm tube) (does not apply to the barb end of the 5 x 5 connector)
   - 125N min (8mm tube and larger)
Product Description
The gas block connector provides a suitable and effective tube to tube joint and seal as well as providing a low-pressure gas seal of the interstitial space between the tube and the fibre bundle. The gas block range prevents gas from leaking past either the tube or the installed fibre unit. Gas blocks are sized to match the tube diameters. When the fittings are pushed onto a clean-cut tube end they make a seal with internal O-rings. If the tube is pulled away from the connector, internal teeth and a tapered body cause the tube to be gripped tighter. Removal of the tube is achievable by pressing the collet inwards. Connectors with a yellow end cap (super-seal) can tighten onto the installed tube and ‘lock’ the collet grip.

Material/Technical Specification

| BODY: | acetal copolymer, impact resistant |
| COLLET: | acetal copolymer, stainless steel teeth |
| O-RINGS: | nitrile rubber |
| GAS SEAL: | silicone rubber (compressable) |

Dimensions (all approximate)

<table>
<thead>
<tr>
<th>Type</th>
<th>(pr code)</th>
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<th>length</th>
<th>type</th>
<th>diameter</th>
<th>length</th>
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</thead>
<tbody>
<tr>
<td>5mm gas block (6091)</td>
<td>16mm</td>
<td>45mm</td>
<td>8 to 5 g/b reducer</td>
<td>20mm</td>
<td>56.3mm</td>
<td></td>
</tr>
<tr>
<td>8mm gas block (6086)</td>
<td>20mm</td>
<td>56.3mm</td>
<td>7mm gas block</td>
<td>18.3mm</td>
<td>53.5mm</td>
<td></td>
</tr>
<tr>
<td>4mm gas block</td>
<td>14.4mm</td>
<td>36.4mm</td>
<td>10mm gas block</td>
<td>22.5mm</td>
<td>63mm</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>12mm gas block</td>
<td>25.7mm</td>
<td>70mm</td>
<td></td>
</tr>
</tbody>
</table>

Performance
(Applies to LDPE, MDPE and HDPE tube)

1. Temperature:
   - Minimum working -10°C
   - Maximum working +40°C

2. Pressure (Air):

<table>
<thead>
<tr>
<th>Temperature</th>
<th>SIZES</th>
</tr>
</thead>
<tbody>
<tr>
<td>up to 8mm</td>
<td>10mm and over</td>
</tr>
<tr>
<td>-10°C to +40°C</td>
<td>10 bar</td>
</tr>
</tbody>
</table>

2. Burst pressure (all sizes): 25 bar min.
3. Gas sealing (gas-block): 0.3 bar
4. Sealing pressure on tube: 1m water head
5. Insertion force: 50N max (5kg)
6. Retention force:

- 55N min (5mm tube)
- 125N min (8mm tube)
- 125N min (10mm tube)

Packaging and Labelling Instructions

Packed 10 per clear re-sealable poly bag. Each bag labelled with JG item code, product description, quantity, unit of issue, contract number, date of manufacture, E-number (where applicable) and Emtelle part number. Bags then boxed and boxes labelled with JG item code, product description, quantity, unit of issue, contract number, date of manufacture, E-number (where applicable) and Emtelle part number.