

## UK DS 70169



### Product Title: Protected Connectors and End Caps

Product Code: See Product Tables



### Product Description

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This is a crush-resistant Emtelle designed product combination, where a standard straight connector (photo) or end cap (not shown) is pre-fitted with an outer cover to improve the physical protection and permit burial at a FTTH location. In addition to the pre-fitted version, the cover itself is also available for the installer to retro-fit over the connector (RHS of photo)

### Application

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The latest generation of drops to domestic premises are heavy-wall single microducts (m/d), providing simplicity, economy and ease of use, for example 8/3.5 or 8/4, and smaller. Under FTTH ground conditions, eg soil or sand, such microducts are ideal in providing a compact and convenient buried drop link to the building. In some circumstances, a connection needs to be made in this location, and this new translucent product range brings a convenient alternative to heavy and bulky DB connector/closures. If the drop tube is not yet populated with fibre, an end cap plus protector will give protection until the fibre is installed, at which time the end cap can be replaced by a protected connector.

### Operations

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The supplied product is a connector pre-fitted with a closed cover, as shown in the picture, items 2 and 4. The pre-fitted outer case holds the connector collets in the outermost 'locked' mode, so that microduct (m/d) can be inserted, but will be protected from accidental disconnection (Similar in principle to 'lockable' connectors)

- a) **To connect m/d:**  
Simply push the m/d fully into each end of the assembly. See photo, items 1 and 3
- b) **To disconnect m/d:**  
Swing open the clasp(s) on the cover. A blunt knife may be needed to snap open the cover, and remove it. Finally press the connector collet and pull out the m/d. If the collet is not pressed, the connector will grip the m/d tighter.

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### Product Table

#### Straight and end caps

Microduct (mm)	Connector plus cover	Endcap plus cover	Cover only
4/2.1	71630	71631	70853
4/2.8	71630	71631	70853
5/3.5	71081	TBC	70853
7/5.5	70169	70876	70010
7/3.5	70194	70876	70010
7/4	73376	70876	70010
8/6	70136	70615	70010
8/3.5	70262	70615	70010
10/8	70170	70877	70175
10/6	73710	70877	70175
12/10	70171	70878	70176
14/10	70172	70624	70177
16/12	74111	73148	73359

#### Reducing connectors

Microduct A	Microduct B	Connector	Connector plus cover
5.0	3.0	9925	70183
5.0	4.0	71649	71650
7.0	4.0	tbc	71657
7.0	5.0	70031	72287
8.0	3.0	70117	70184
10.0	5.0	70032	tbc
10.0	7.0	70033	72288
12.0	10.0	9930	72289
14.0	7.0	tbc	75535
14.0	12.0	9931	72290
16.0	12.0	70036	74114
16.0	14.0	tbc	74113

### Performance

- **Air Pressure:** Each connector and end cap is rated at 16bar max, tested to 25bar.
- **Gas Tightness** Leakage at 8 bar gas pressure: 1ml/minute approx  
Leakage at 0.7 bar gas pressure: 0.01ml/minute approx
- **Water Ingress:** The connectors shall seal against a 6m head of water.
- **Crush test (IEC 60794-1-2 –E3):** Assembly suffers no damage and both cover and connector are fully functional after over 3000N direct crush load (300kg)
- **Hinge lifetime (fatigue) test:** 1000 cycles, no cracks
- **Microduct Retention force test:** over 250N (25kg) before m/d pulls out
- **Impact test (IEC 60794-1-2-E4), with 1kg drop weight, 12.5mm radius:** 2-3 Joules energy (no damage to connector)

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### **Packaging and Labelling**

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

Products are supplied 10 per bag.

END OF SPECIFICATION

### **Change Documentation**

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	Release Date:
Issue B	24-05-2011
Issue C	09-05-2013
Issue D	14-05-2014
Issue E	06-05-2016
Issue F	20-03-2017
Issue G	10-10-2018
Issue H	25-10-2018
Issue I	22-10-2019
Issue J	02-09-2020

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