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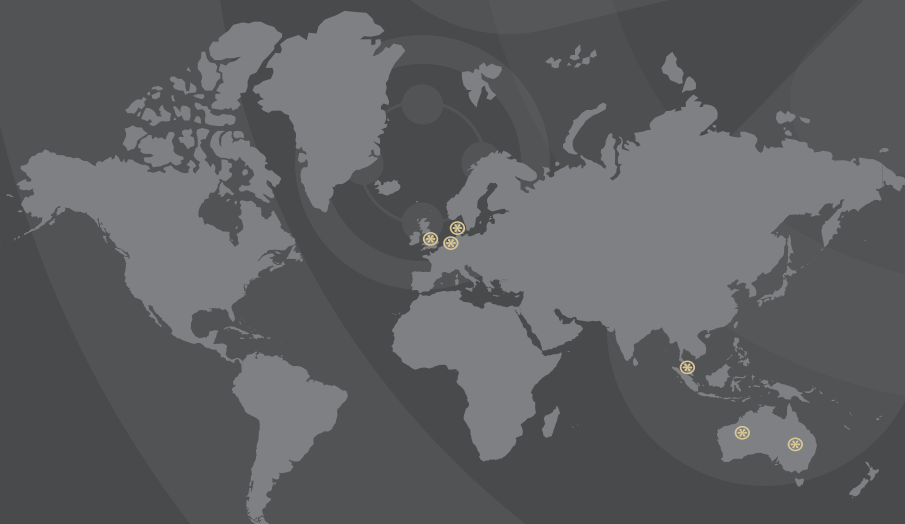
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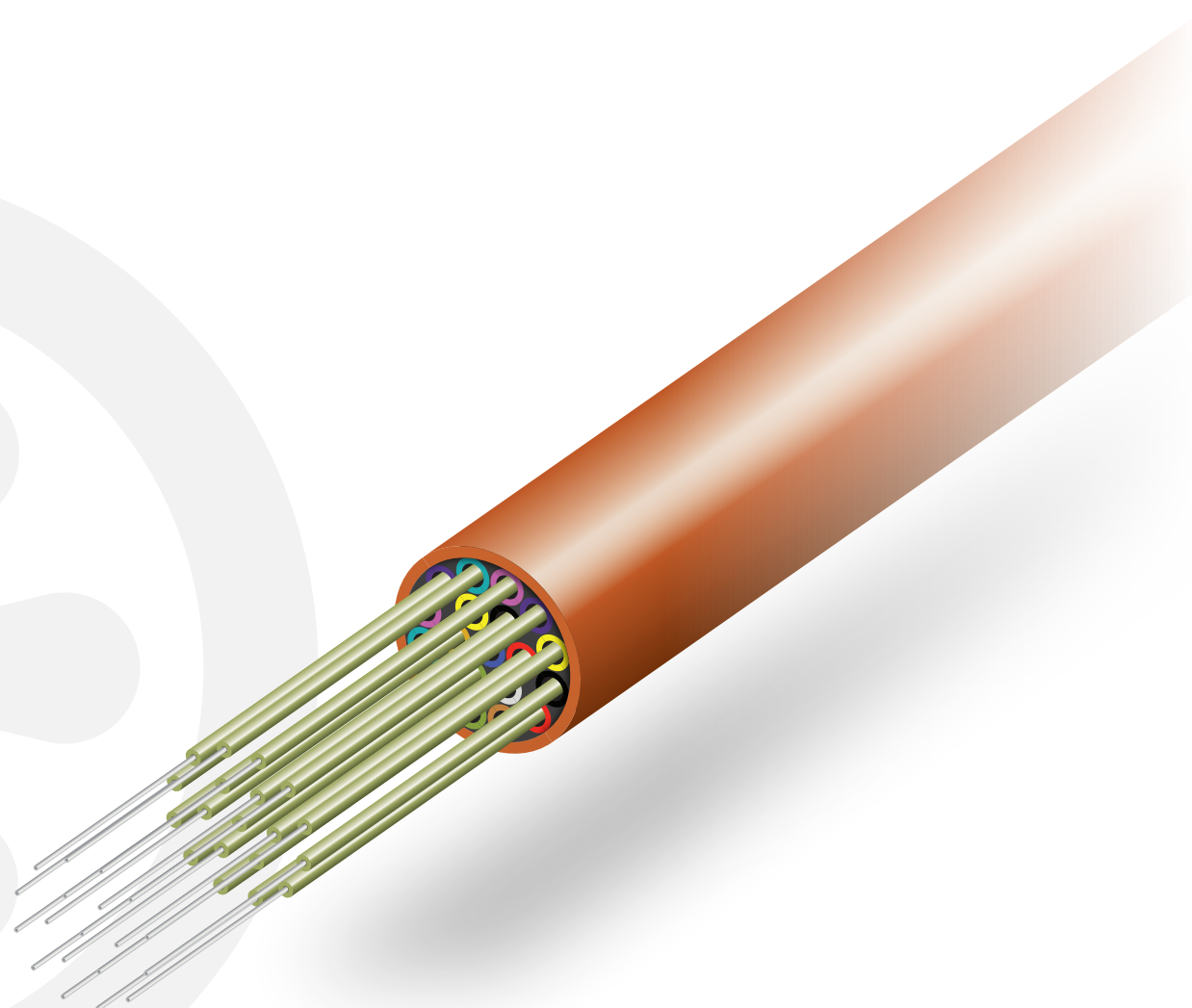
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 **MULTIFU**  
System

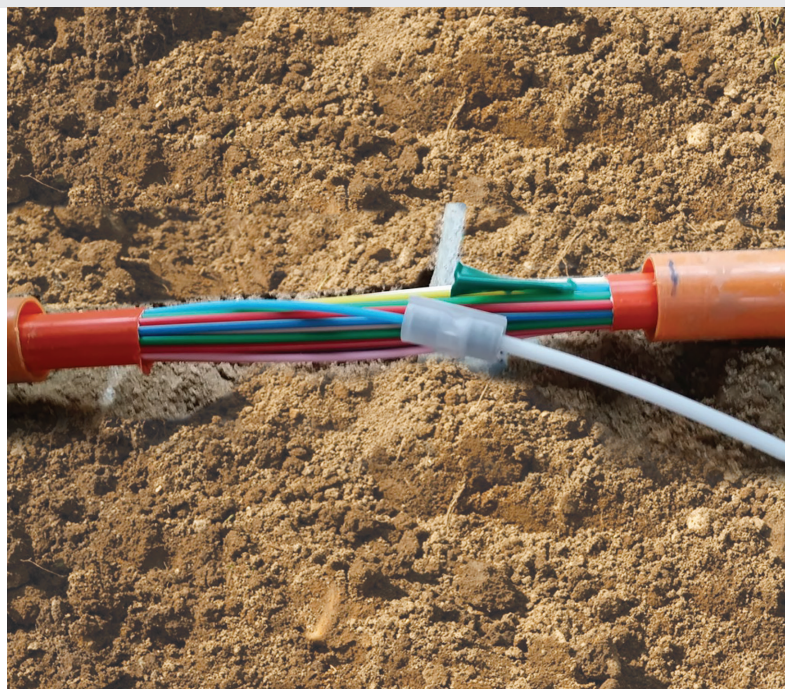


# Emtelle MULTIFU ensures fibre installation in one process.

With over 30 years of experience in the FTTx industry, Emtelle is a leading global manufacturer of FTTx Solutions. We have a proven track record, and a reputation for exemplary customer service.

## Manufacturing

Manufacturing facilities in Scotland (2), Denmark and Germany with 70,000m<sup>2</sup> manufacturing space. Fully Integrated – in house manufacture of air blown fibre unit, microducts, optical fibre cables, duct and subduct. Over 20 billion metres of microducts manufactured and sold since 1993 - plus over 3 billion metres of fibre bundle since 2002.



Emtelle continues to focus on tackling the practical issues and cost challenges of “To the Customer” solutions, demonstrating our innovative approach to overcoming both the technical and financial challenges of the customer connection. Demanding and complex FTTH projects depend heavily on choosing the correct deployment method and materials. Emtelle are always on hand to support and advise customers on this.

A new and welcome trend that has emerged sees utility companies using their existing infrastructure and pre-existing utility ducts in innovative ways to provide customer with fibre connections. An excellent example of Emtelle's MULTIFU retractable fibre products being used in this shared infrastructure is in Aarhus, Denmark – where a no dig zone in the street meant it was prohibited to lay new ducts, making it very difficult to access the customer.

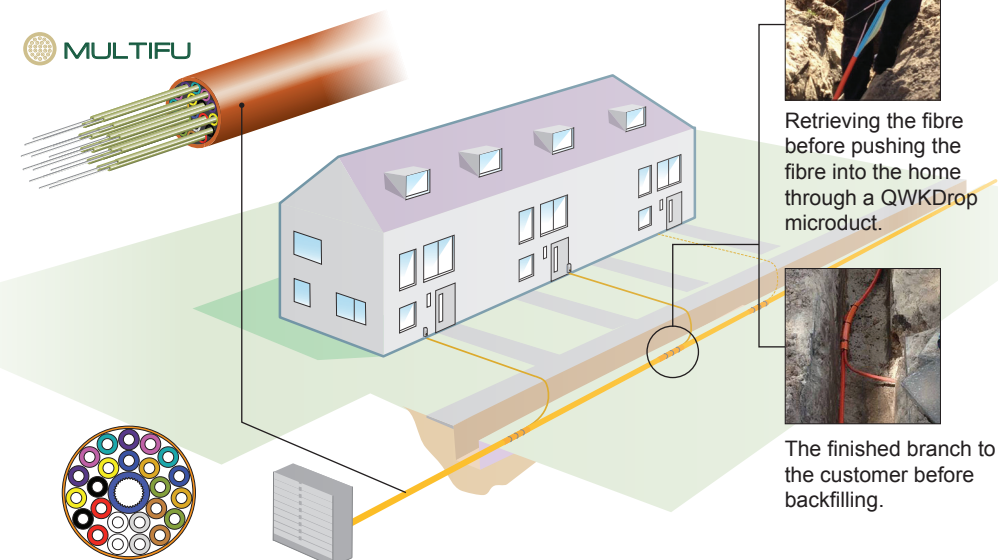
## Product Benefits

- Reduce CAPEX per home passed and home connected on Day 1
  - Easy to install, assemble and use products
  - Reduce the skill requirements
  - Minimise installation time and reduce failure rate
  - Increase roll out speed
- Lower upgrade and maintenance costs for the life time of the network
- Adapted for low cost construction techniques
  - Narrow trench
  - Shallow depth burial

## Product design/data

Tube bundle with 7, 12, 19 or 24 X 4/2.1mm Microducts

- 1, 2, 3 or 4 Fibres Pre-Installed into each Microduct (2d, A1 & A2 Fibre)
- Emtelle can partially fill or fully fill the tube bundle with fibres
- 500M or 800M supply lengths
- No blowing required, only Pull & Push
- Still has a dedicated pathway to each home
- Easy to repair, upgrade and connect



MULTIFU can be made with 12 individually colored mirror ducts. In the case of 24DB 2 colors of each microduct.

Scan the QR-code with your smartphone and watch the MULTIFU information on the Emtelle website.

## Emtelle's MULTIFU employed for challenging MDU FTTH in Denmark

When Danish telecommunications company Fibia faced the challenge of installing a FTTH network within a large multi dwelling unit (MDU) in the city of Aarhus, Denmark they chose Emtelle's MULTIFU products. The city centre location meant that dig ups were not permitted; reducing access in what was already a challenging project.

Emtelle's MULTIFU is a protected microduct with fibre units pre-installed, meaning Fibia could slide the MULTIFU microducts into the existing 40mm tubes.

“Emtelle's MULTIFU tube was very easy to work with and it slipped easily through the existing 40mm tubes.”

Torben Jensen - Backbone & Business Manager at Fibia

