

UK DS QWKconnect Indoor

Issue Number: 1

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Product Description

QWKconnect is a pre-connectorised fibre bundle pre-installed within a microduct at the manufacturing process. This means that the microduct can be installed between the basement/riser/apartment and the homes with the QWKconnect fibre already installed, eliminating blowing costs and reducing splicing costs for the operator. QWKconnect gives all the advantages of blown fibre, without the need for blowing.

Features

As the QWKconnect fibre bundle is only 1mm in diameter, any excess fibre can easily be coiled into the CCP at the home or in fibre management.

Installation Example

For an 80m run between a cabinet and a home, a 100m length of QWKconnect can be installed (with 20 metres of microduct spare, in case of any measurement inaccuracies). Once the microduct has been installed, any excess microduct can be 'ring cut' at the customer end of the QWKconnect fibre and removed over the connector, then recycled.

The excess 20m of fibre which is left once the microduct has been removed, is stored within a CCP, which is installed at the customer premises.

Once both ends are dressed into the CCP/cabinet, it is a simple case of plugging in both connectors.

Available Options

Below is a list of available options for Emtelle's QWKconnect pre-connectorised microduct system for internal applications. For alternative lengths, fibre, and connector types please check with your Emtelle representative for availability.

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1. Microduct Options
Internal Installation
7/4mm LFH
5/3.5mm LFH

2. Fibre Count Options	
2f	4f

3. Fibre Type Options ITU-T		
G.652.D	G.657.A1	G.657.A2

4. Connector End 1 Options (Top of Reel)	
SCv/APC	SCv/UPC
LCv/APC	LCv/UPC
BARE	-

5. Connector End 2 Options (Bottom of Reel)	
SCv/APC	SCv/UPC
LCv/APC	LCv/UPC
BARE	-

*v denotes ferrule is blowable type and field assembled.

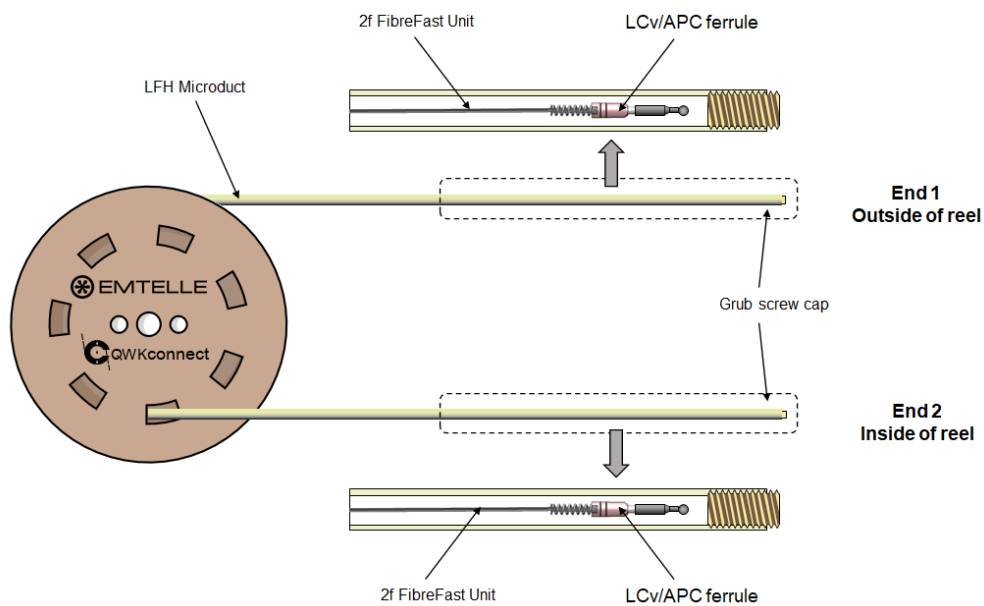
6. Fibre Length Options												
25m	50m	75m	100m	125m	150m	175m	200m	225m	250m	275m	300m	

Below is an example of how to build the product description required for pricing and product code selection by Emtelle representative.

[1. Microduct Size] - [2. Fibre Count] - [3. Fibre Type] - [4. Connector End 1] to [5. Connector End 2] – [6. Fibre Length]

Typical Example

7/4mm LFH - 2f - G.657.A2 - LCv/APC to LCv/APC – 175m



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Specifications

Microduct

Material	Colour	O.D.	I.D.	Weight	Min Bend Radius	Max Tension
LFH	Natural	7mm	4mm	39g/m	95mm	140N
LFH	Natural	5mm	3.5mm	15g/m	65mm	55N

FibreFast Fibre Unit

No. of fibres	Diameter	Weight	Min Bend Rad	Fibre colours
2f	1.05mm	1g/m	50mm	Blue, Orange
4f	1.05mm	1g/m	50mm	Blue, Orange, Green, Brown

For full specification see MHT2811

QWKconnect CPR

Microduct and Fibre Unit Combination

Rating to BS EN 13501-6:2014	FibreFast Fibre Unit	
Microduct	2f	2f
LFH 7mm OD	B2ca-s1a,d2,a1	B2ca-s1a,d2,a1
LFH 5mm OD	Dca-s1a,d2,a1	Dca-s1a,d2,a1

Connectors

Parameter	Requirement			
	SCv/UPC	SCv/APC 8°	LCv/UPC	LCv/APC 8°
Specification	IEC 60874	IEC 60874	IEC 61754	IEC 61754
Test Methods	IEC 61300	IEC 61300	IEC 61300	IEC 61300
Connector Body Colour	Blue	Green	Blue	Green
Connector Boot Colour	Blue	Green	Blue	Green
Insertion Loss, maximum (dB)	0.25	0.25	0.25	0.25
Return Loss, typical (dB)	52	62	52	62
Return Loss, minimum (dB)	50	60	50	60
Temperature, in operation (°C)	-40 ~ +75			
Temperature, storage (°C)	-55 ~ +85			

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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