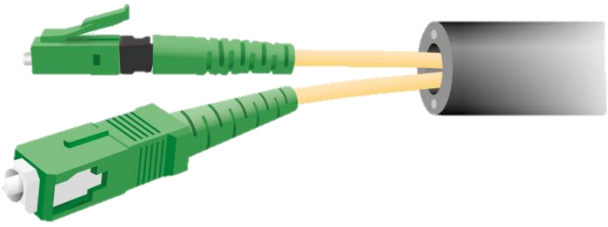
UK DS QWKconnect Generic



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 1.1mm in diameter, any excess fibre can easily be coiled into the CCP at the home or in fibre management.

QWKconnect options include products for

- Direct buried
- Internal Installation
- Pulled into an existing duct
- Pinned along walls
- Installed overhead (aerial)

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.

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Available Options

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

1. Microduct Options		
Internal Installation	External Installation	Aerial Installation (UDT)
7/4mm LFH	8/4mm HDPE	7/3.7mm MDPE
5/3.5mm LFH	7/4mm HDPE	6/3.2mm HDPE
5/3.5mm PVDF (Plenum)	7/4mm MDPE	

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	
SCv/APC	SCv/UPC
LCv/APC	LCv/UPC
BARE	-

*v denotes ferrule is blowable type and field assembled.

To

5. Connector End 2 Options	
SC/APC	SC/UPC
SCv/APC	SCv/UPC
LC/APC	LC/UPC
LCv/APC	LCv/UPC

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]

7/4mm LFH - 2f - G.657.A1 - SCv/APC to SCv/APC – 175m

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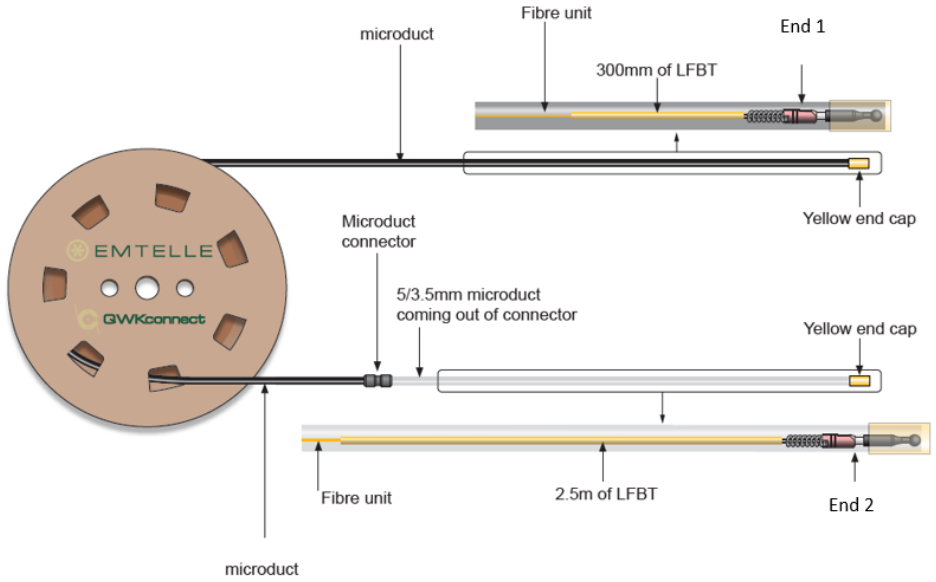
Typical Example



Specifications

Microduct

Material	Colour	O.D.	I.D.	Weight	Min Bend Rad	Max Tension	QWKconnect CPR / UL Rating
HDPE	Black	8mm	4mm	36g/m	110mm	330N	-
HDPE	Black	7mm	4mm	25g/m	95mm	230N	-
HDPE	Black	6mm	3.2mm	21g/m	100mm	375N	-
MDPE	Black	7mm	4mm	25g/m	95mm	230N	-
MDPE	Black	7mm	3.7mm	27g/m	160mm	650N	-
LFH	Natural	7mm	4mm	39g/m	95mm	140N	BSEN 13501-6:2014 B2ca-s1a,d2,a1
LFH	Natural	5mm	3.5mm	15g/m	65mm	55N	BSEN 13501-6:2014 Dca-s1a,d2,a1
PVDF	Natural	5mm	3.5mm	23g/m	65mm	59N	UL Pass

Fibre Unit

No. of fibres	Diameter	Weight	Min Bend Rad	fibre colours
2f	1.1mm	1g/m	50mm	Blue, Orange
4f	1.1mm	1g/m	50mm	Blue, Orange, Green, Brown

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Connectors

Parameter	Requirement			
	SC/UPC	**SC/APC 8°**	**LC/UPC**	**LC/UPC 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, typical (dB)	0.20	0.20	0.20	0.20
Insertion Loss, maximum (dB)	0.30	0.30	0.30	0.30
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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