

## UK DS QWKlink Generic

Issue C 6<sup>th</sup> Dec 2019



### Product Description

---

QWKlink is a pre-connectorised fibre bundle which allows for fibre connectors on both ends, eliminating the need for any splicing for FttX connections.

### Application

---

The fibre bundle can have either a 'blowable' LC APC or 'blowable' SC APC connector on the end of the fibre bundle, which can be blown through a 3.5mm bore microduct or larger. The leading ferrule end has 2.5m of low friction sleeving which is blown through with the ferrule and protects the fibre unit at the connection/termination point. Installation distances by means of blowing can reach up to 700m (depending on compressor spec), so the QWKlink solution is ideally suited for Urban and Rural FttX applications. Once the LC or SC ferrule has been blown through, the field fitted connector components can be assembled.

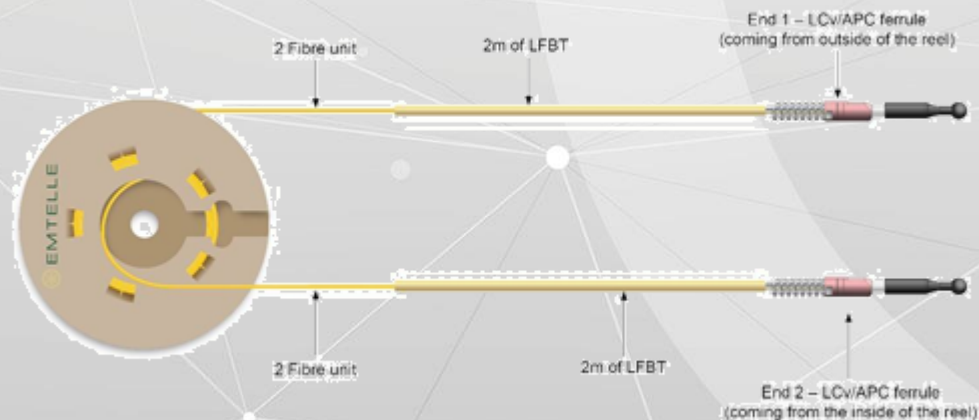
The 'non-blown end' of the fibre bundle can be terminated with an LC APC or SC APC connector as per requirements. The Ø1.1mm diameter of the fibre bundle allows for storage of any excess fibre bundle at the customer connection point.

Emtelle's fibre bundle is renowned for its excellent blowing performance and adding a blowable pre-terminated connector is the 'ultimate' next stage for reducing FttX costs.

### Product details

---

Typical example of QWKlink makeup below:



This document is intended as a guide only. Whilst the information it contains is believed to be correct, Emtelle can take no responsibility for actions taken based on the information contained in this document. Emtelle reserves the right to make changes to this document without notice. All sales of product are subject to Emtelle's terms and conditions of sale only, which can be found on Emtelle's website.

This document is protected by copyright (c) Emtelle Group [2019]. The products depicted are protected by intellectual property rights. Any unauthorized copying of this document or of our products is prohibited and Emtelle UK Limited will take action to prevent any infringement of its rights and to claim damages for the loss that it suffers.

# UK DS QWKlink Generic

Issue C 6<sup>th</sup> Dec 2019

## Available Options

Below is a list of available options for Emtelles QWKlink fibre unit. For alternative lengths, fibre, and connector types please check with your Emtelle representative for availability.

1. Fibre Count Options	
2f	4f

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

3. Connector End 1 Options	
SCv/APC	SCv/UPC
LCv/APC	LCv/UPC
BARE	-

To

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

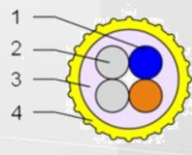
5. Fibre Length Options							
25m	50m	75m	100m	125m	150m	175m	200m
225m	250m	275m	300m	350m	400m	450m	500m

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

**[1. Fibre Count] - [2. Fibre Type] - [3. Connector End 1] to [4. Connector End 2] - [5. Fibre Length]**

**2f - G.657.A1 - SCv/APC to SC/APC - 175m**

## Fibre Unit Technical Data

Construction 1: Optical Fibre 2: Filler (mechanical fibre) 3: Encapsulation 4: Low friction sheath	Fibre Unit FU	
		
	<b>2f or 4f</b>	
Outer diameter (nominal)	1.1 mm	
Mass (nominal)	1.0 g/m	
Fibre type G.652.D	Refer to MHT 1201 and MHT 1401	
Fibre type G.657.A1	Refer to MHT 2185 and MHT 2050	
Fibre type G.652.A2	Refer to MHT 2185 and MHT 2050	

This document is intended as a guide only. Whilst the information it contains is believed to be correct, Emtelle can take no responsibility for actions taken based on the information contained in this document. Emtelle reserves the right to make changes to this document without notice. All sales of product are subject to Emtelle's terms and conditions of sale only, which can be found on Emtelle's website.

This document is protected by copyright (c) Emtelle Group [2019]. The products depicted are protected by intellectual property rights. Any unauthorized copying of this document or of our products is prohibited and Emtelle UK Limited will take action to prevent any infringement of its rights and to claim damages for the loss that it suffers.

[www.emtelle.com](http://www.emtelle.com)

## UK DS QWKlink Generic

Issue C 6<sup>th</sup> Dec 2019

### Connector Technical Data

Parameter	Requirement			
	SC/UPC	SC/APC 8°	LC/UPC	LC/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, 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			

### LC Field Terminated Connector Technical Data

LC Venturi Simplex Connector	Specification
Standards	TIA/EIA 604-10A & IEC 61754-20
Mechanical Latching	Latching [Pull Proof]
Applications	Telecom, OEM, FTTH
Ferrule	Zirconia 1.25mm
Ferrule Carriage	Stainless Steel
Ferrule Size	Singlemode ID 125.5um
LC Connector Body	PBT UL94 V0 Materials
Spring	Stainless Steel
Fibre Sizes	125um Cladding
Fibre Coatings	250um, 0.6mm, 0.9mm, 1.1mm
Connector Length	36mm
Typical Insertion Loss	<0.2dB
Typical Return Loss	UPC >50dB, APC >60dB
Repeatability	<0.2dB
Operating Temperature	-20°C to +70°C
Durability [Matings]	>500 [0.2db change]
Fibre/Cable Retention	10N [Dependant on Fibre Type]

### SC Field Terminated Connector Technical Data

SC Venturi Simplex Connector	Specification
Standards	IEC 6087 4-1 4-9
Mechanical Latching	Latching
Applications	Telecom, OEM, FTTH
Ferrule	Zirconia 2.5mm
Ferrule Carriage	Stainless Steel MIM
Ferrule Size	Singlemode ID 125.5um
SC Connector Body	PBT and PEI [UL94 V0]
Spring	Stainless Steel
Fibre Sizes	125um Cladding
Fibre Coatings	250um, 0.6mm, 0.9mm, 1.1mm
Connector Length	36mm
Typical Insertion Loss	<0.2dB
Typical Return Loss	UPC >50dB, APC >60dB
Repeatability	<0.2dB
Operating Temperature	-20°C to +75°C
Durability [Matings]	>500 [0.2db change]
Fibre/Cable Retention	10N [Dependant on Fibre Type]

This document is intended as a guide only. Whilst the information it contains is believed to be correct, Emtelle can take no responsibility for actions taken based on the information contained in this document. Emtelle reserves the right to make changes to this document without notice. All sales of product are subject to Emtelle's terms and conditions of sale only, which can be found on Emtelle's website.

This document is protected by copyright (c) Emtelle Group [2019]. The products depicted are protected by intellectual property rights. Any unauthorized copying of this document or of our products is prohibited and Emtelle UK Limited will take action to prevent any infringement of its rights and to claim damages for the loss that it suffers.

[www.emtelle.com](http://www.emtelle.com)

## UK DS QWKlink Generic

Issue C 6<sup>th</sup> Dec 2019

### **Installation and Handling**

---

Installation instructions will be specific to the type of termination point used. The user must Store the pre-connected reels in supplied containers/bags under dry and damp free conditions, until time of deployment.

Designed for installation into microducts with internal diameters from 3.5mm (LC) 4.0mm (SC) and upwards. Standard installation equipment may be used (eg Emtelle GS150, Fusion, Plummett EM25, PRM-196, and BT 2A), or other.

Follow up-to-date installation and handling recommendations as defined by the manufacturer.

### **Packaging and Labelling**

---

QWKlink will be supplied on cardboard reels in lengths of up to 500m.

Each reel shall provide the following information:

- Product Code
- Description of the item within
- Product/batch tracking number
- Insertion and return loss figures for each fibre connector

Cardboard Reels:

- Maximum Fibre Length - 500m
- Diameter (mm) - Ø265 x 38mm
- Sealable waterproof bag
- Storage compartment to provide protection for the SC APC connector and field terminated connector components.

This document is intended as a guide only. Whilst the information it contains is believed to be correct, Emtelle can take no responsibility for actions taken based on the information contained in this document. Emtelle reserves the right to make changes to this document without notice. All sales of product are subject to Emtelle's terms and conditions of sale only, which can be found on Emtelle's website.

This document is protected by copyright (c) Emtelle Group [2019]. The products depicted are protected by intellectual property rights. Any unauthorized copying of this document or of our products is prohibited and Emtelle UK Limited will take action to prevent any infringement of its rights and to claim damages for the loss that it suffers.

[www.emtelle.com](http://www.emtelle.com)