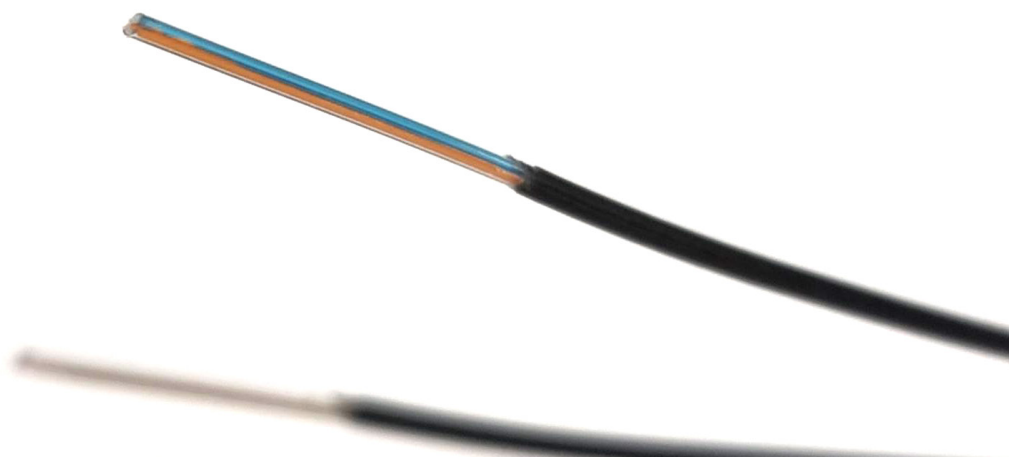




# FUTURE PROOF FIBRE



GLOBAL MANUFACTURER OF PRE-CONNECTORISED, BLOWN FIBRE CABLE & DUCTED NETWORK SOLUTIONS

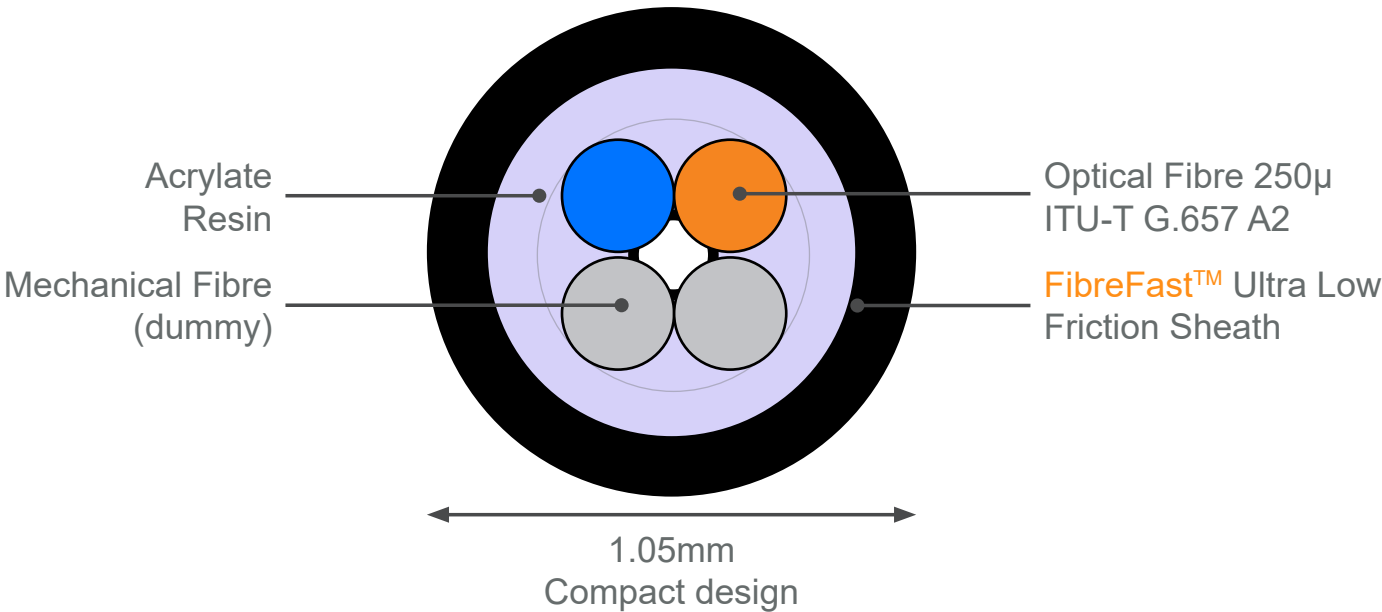
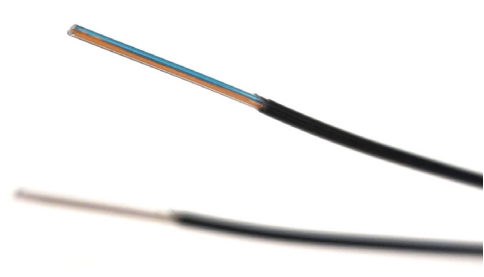
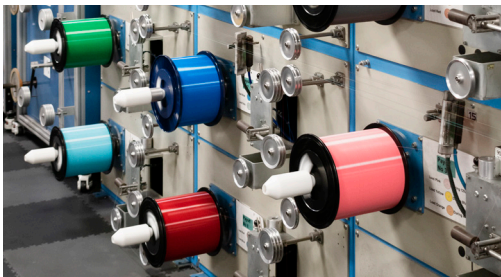
CONTINUED INNOVATION TO IMPROVE FIBRE CABLE SOLUTIONS

Emtelle understands the challenges faced when rolling out FTTH network infrastructure. In response, we focus on continued innovation of our optical fibre cable solution offerings to meet these demands.

FibreFast™ is our latest patented fibre cable design, featuring enhanced benefits to the network provider to support their network rollout demands:



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Emtelle have developed the FibreFast™ microcable to improve the overall installation experience by reducing installation time (Ultra Low Friction Sheath) and equipment specification (Lower installation pressure required).Dependent on the infrastructure quality.

FibreFast™ microcable now features improved tensile performance making this product ideal for our pre-terminated blowable fibre cable solutions.

This innovative microcable is well suited to the FTTX market, where it excels as a blowable terminated solution. It has applications in 5G / FTTA (antenna) / IoT, distributions network infrastructure and FTTH (home) as a blowable customer connection cable.

Deployed in 2.1mm – 5.0mm internal diameter microduct infrastructure.



1.047 g/m  
Lightweight  
Compact design



Low Coil set



IEC 60794-5-20:2014

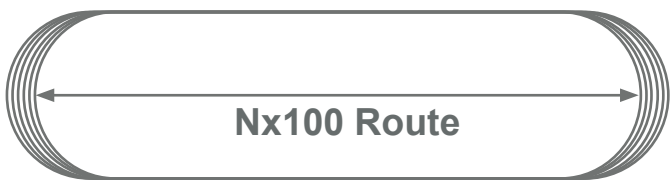


Ultra Low Friction  
Exceptional performance with FibreFlow™ microducts

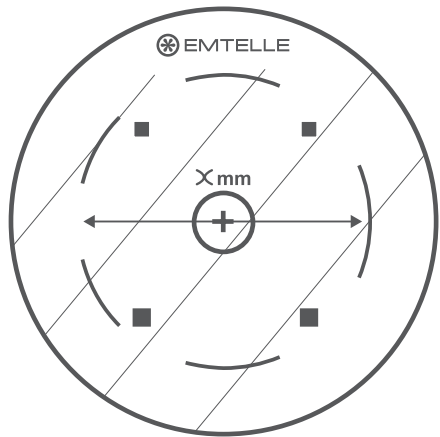
## DESIGN & ENHANCEMENT

FibreFast™ boasts an impressive 8% improvement in friction coefficient over our FibreFlow microcable. Rigorously tested on our Emtelle test track, the innovative FibreFast™ results in superior blowing performance. With over 25 years of experience in manufacturing fibre cable solutions, Emtelle is delighted to add FibreFast™ microcable to our microcable portfolio.

### Ultra Low Friction Sheath – strenuous blowing route tests



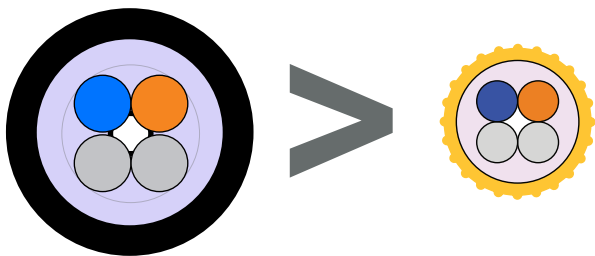
Less than 35min  
1000m route 10x100 route  
Ave speed > 30m/min  
10bar Pressure



Less than 20min  
500m Drum  
Ave speed > 25m/min  
10bar Pressure

### Ultra low Friction and exceptional performance with FibreFlow™ microducts.

8% Improvement in friction coefficient over our FibreFlow™ Microcable



DESIGN SPECIFICATIONS

Tested in accordance with IEC 60794-5-20:2014 Specifications.

Mechanical Performance:

Test Name	Test Method	Test Parameters	Specifications
Tensile Performance	IEC 60794-1-21-E1	T = 35.3N Duration 1min	Fibre strain <0.6% at maximum applied force, 100% recovery after test.
Crush resistance	IEC 60794-1-21-E3	W = 100N for 1 minute	No visual damage, no attenuations change after test <0.05dB
Repeated Bending	IEC 60794-1-21-E6	60mm diameter	No visual damage, no attenuations change after test <0.05dB
Torsion	IEC 60794-1-21-E7	300mm length	No visual damage, no attenuations change after test <0.05dB
Kink test	IEC 60794-1-21-E10	60mm diameter	No visual damage, no attenuations change after test <0.05dB
Bend	IEC 60794-1-21-E11	60mm mandrel diameter, Four turns, Three cycles	No visual damage, no attenuations change after test <0.05dB

Environmental Performance:

Test Name	Test Method	Test Parameters	Specifications
Temperature Cycle	IEC 60794-1-2-F1 (3 cycles)	+23°C, -20°C, +60°C	Attenuation to be ≤0.05dB/km change during and after test

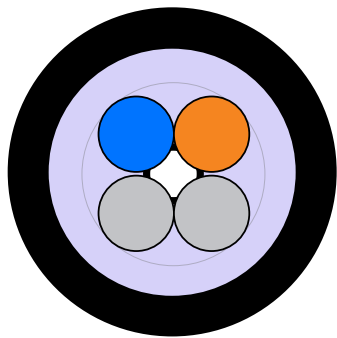
Optical Performance:

Optical Fibre	Value
Fibre Type	Single Mode Compliant with G.657A2 (ITU-T) (MHT2050)
PMDQ (M=20 Q=0.01%)	≤0.2 ps/ (km) 2
Macro bending Performance (Individual stripped out fibres)	50mm radius (100 turns) ≤0.1dB at 1550nm and 1625nm 32mm radius (1 turn) ≤0.5dB at 1550nm and 1625nm
Attenuation at 20°C (dB/km)	0.40 dB/km max at 1310nm to 1625nm 0.30 dB/km max at 1550nm 0.34 dB/km max at 1383nm water peak

Various fibre colour configuration available on request - [Product specification MHT2811](#)

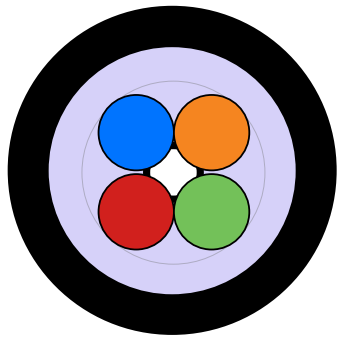
NEW DESIGNS COMING SOON

Emtelle offers a wide range of fibre counts to enable customers to plan their network capacity with minimum wastage. New additions coming soon:



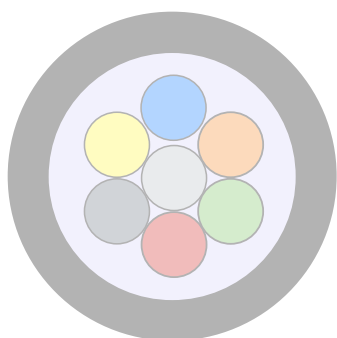
2F Fibre with 2 Mechanicals  
1.047 g/m  
1.05 mm  
ITU-T G657 A2

APPROVED



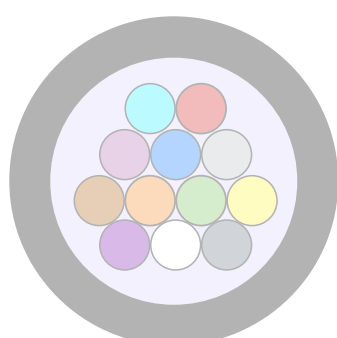
4F Fibre  
1.047 g/m  
1.05 mm  
ITU-T G657 A2

APPROVED



6F Fibre  
1.47 g/m  
1.23 mm  
ITU-T G657 A2

COMING SOON



12F Fibre  
2.32 g/m  
1.55 mm  
ITU-T G657 A2

COMING SOON



## CONTACT US



**Emtelle Group**  
Allan House, Floor 4  
25 Bothwell Street  
Glasgow, G2 6NL  
United Kingdom

 **+44 (0) 1450 364 000**  
 **info@emtelle.com**

**Emtelle UK**  
Haughhead  
Hawick  
TD9 8LF  
United Kingdom

 **+44 (0) 1450 364 000**  
 **info@emtelle.com**



**Emtelle Scandinavia**  
Vardevej 140  
7280 Sønder Felding  
Denmark

 **+45 86 28 84 88**  
 **salg@emtelle.com**



**Emtelle GmbH**  
An der Flurscheide 20  
99098 Erfurt  
Germany

 **+49 (0) 361 654 330**  
 **info-de@emtelle.com**

**Emtelle UAE**  
Plot 597-896  
Dubai Investment Park  
Dubai, UAE

 **+971 4 883 1608**  
 **info@emtelle.com**

**Emtelle USA**  
101 Mills Gap Rd  
Unit A, Fletcher  
NC 28732  
USA

 **+1 (828) 7079970**  
 **info@emtelle.com**

