Enbeam
Micro Blown Cable

FTTx
solutions
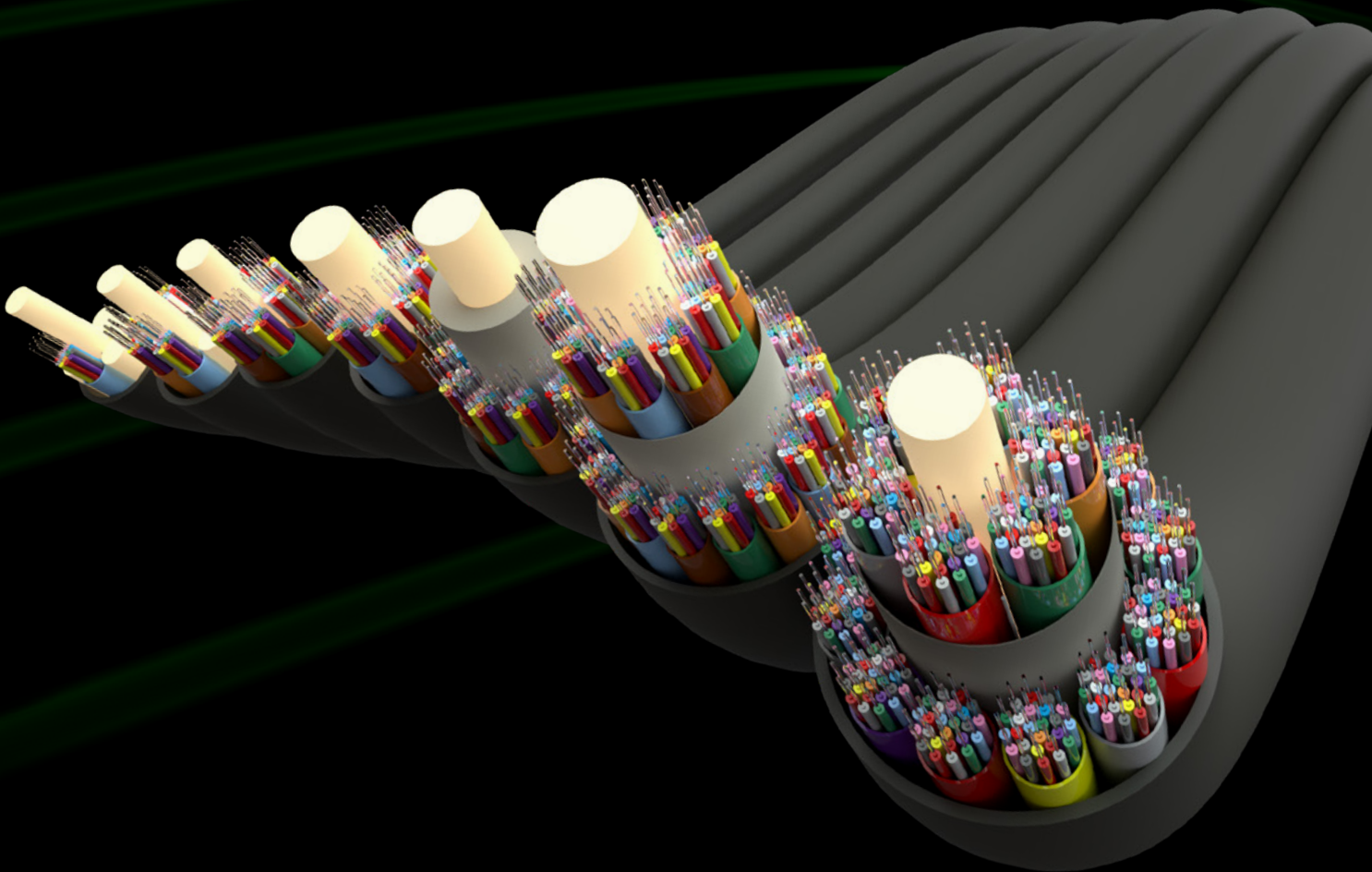
ENBEAM MICRO BLOWN CABLE

PRODUCT OVERVIEW

The Enbeam Micro Blown fibre has been designed for blowing into the Enbeam Micro-duct system. The OS2 Micro Blown SM G.657.A1 Fibre Loose Tube 9/125 HDPE Fca Black cable is available with 12 to 432 fibres and forms part of a huge range of OS2 fibre optic cables available from Mayflex.

The cable is constructed from multiple gel filled loose tubes around a central strength member, overlaid with water blocking yarn and covered with a High-Density Polyethylene (HDPE) outer jacket. The small diameter 5.3mm to 12.2mm allows high core count fibres to be blown into the access network down micro-duct with an inner diameter as small as 10 to 18 mm.

Please note this cable is used for blown systems only and should not be manually pulled into ducts.

FIBRE SPECIFICATION

|			
Attenuation	@1310nm		≤0.38 dB/km
	@1383nm		≤0.38 dB/km
	@1550nm		≤0.26 dB/km
	@1625nm		≤0.26 dB/km
Chromatic dispersion coefficient	1285nm - 1330nm		≤3.5 ps/km·nm
	@1550nm		≤18 ps/km·nm
Zero dispersion wavelength, $\lambda 0$			1300-1324 nm
Zero dispersion slope			≤0.092 ps/(km·nm^2)
Cut-off wavelength, λcc			≤1260 nm
Polarization mode dispersion	Individual fibre		≤0.2 ps/√Km
	Design link value (M=20, Q=0.01%)		≤0.1 ps/√Km
Macro bending loss	10 turns, 15mm radius		≤0.25 dB@1550nm
			≤1.0 dB@1625nm
	1 turn, 10mm radius		≤0.75 dB@1550nm
			≤1.5 dB @1625nm
Cladding diameter			125.0±1.0µm
Cladding non-circularity			≤1.0%
Primary coating diameter			250±15µm
Core concentricity error			≤0.6µm
Coating - cladding concentricity error			≤12µm
Fibre curl radius			≥4m
Mode field diameter	@1310nm		9.2±0.4µm
Point discontinuity			≤0.05 dB
Proof stress Level			≥100kpsi (0.69 GPa)
Coating strip force	Peak		1.3-8.9 N

CABLE SPECIFICATION

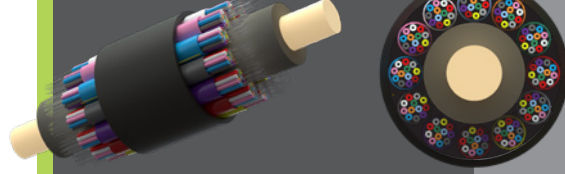|		
Weight (kg/km)	12, 48, 72 cores	23 (nominal)
	96 core	35 (nominal)
	144 core	52 (nominal)
	288 core	81 (nominal)
	432 core	116 (nominal)
Loose tube material		PBT
Type of filling compound		Jelly
Central strength member type		FRP
Tensile performance (N)	Long term	0.15 G
	Short term	0.5 G
Crush resistance long term		150 N/100 mm
Short term		450 N/100 mm
Minimum bending radius during installation		20D
After installation		10D
Temperature operating		-20°C to 70°C

PRODUCT SPECIFICATION

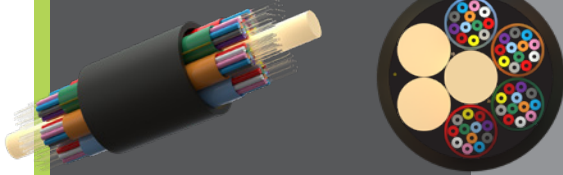|		
Number of cores	12 to 432	
Type of tube	Loose tube	
Number of fibres per tube	12 to 288	12F
	432	24F
Fibre type	Single mode 9/125	
Category	OS2	
Outer sheath material	HDPE	
Outer sheath colour	Black	
Reaction-to-fire class according to EN 13501-6	Fca	
Outer diameter approx.	5.3 mm to 12.2 mm	
Blown system	Yes	

![excel without compromise.]

325-012
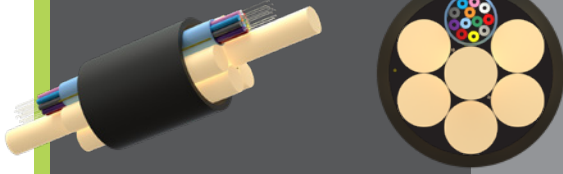
Number of cores	12
Number of fibres per tube	12
Number of tubes	1
Number of fillers	5

325-048

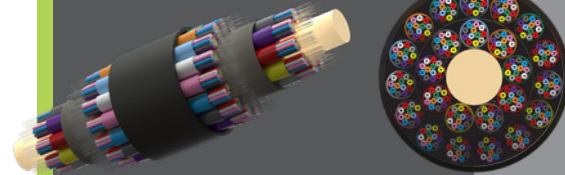|	
Number of cores	48
Number of fibres per tube	12
Number of tubes	4
Number of fillers	2

325-072

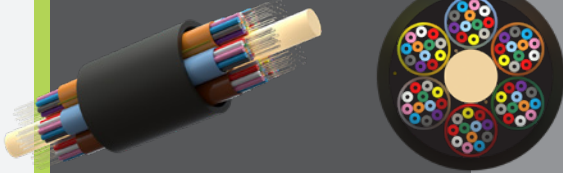|	
Number of cores	72
Number of fibres per tube	12
Number of tubes	6
Number of fillers	0

325-096

Number of cores	96
Number of fibres per tube	12
Number of tubes	8
Number of fillers	0

325-144

Number of cores	144
Number of fibres per tube	12
Number of tubes	12
Number of fillers	0

325-288

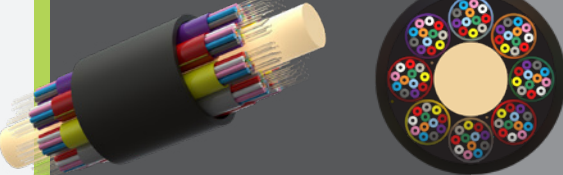|	
Number of cores	288
Number of fibres per tube	12
Number of tubes	24
Number of fillers	0

325-432

Number of cores	432
Number of fibres per tube	24
Number of tubes	18
Number of fillers	0

PART NUMBER INFORMATION

Part Number	Product Description
325-012	Excel Enbeam OS2 Micro Blown Singlemode G.657.A1 Fibre Cable Loose Tube 12 Core 9/125 HDPE Fca Black
325-048	Excel Enbeam OS2 Micro Blown Singlemode G.657.A1 Fibre Cable Loose Tube 48 Core 9/125 HDPE Fca Black
325-072	Excel Enbeam OS2 Micro Blown Singlemode G.657.A1 Fibre Cable Loose Tube 72 Core 9/125 HDPE Fca Black
325-096	Excel Enbeam OS2 Micro Blown Singlemode G.657.A1 Fibre Cable Loose Tube 96 Core 9/125 HDPE Fca Black
325-144	Excel Enbeam OS2 Micro Blown Singlemode G.657.A1 Fibre Cable Loose Tube 144 Core 9/125 HDPE Fca Black
325-288	Excel Enbeam OS2 Micro Blown Singlemode G.657.A1 Fibre Cable Loose Tube 288 Core 9/125 HDPE Fca Black
325-432	Excel Enbeam OS2 Micro Blown Singlemode G.657.A1 Fibre Cable Loose Tube 432 Core 9/125 HDPE Fca Black

Note: Images used in this data sheet are indicative of the cable style only.

excel
without compromise.

Excel House, Junction Six Industrial Park
Electric Avenue, Birmingham, B6 7JJ

Phone: 0800 75 75 65
Email: FTTx@mayflex.com

www.excel-networking.com

find out all about:

Enbeam
Micro Blown Cable

FTTx
solutions