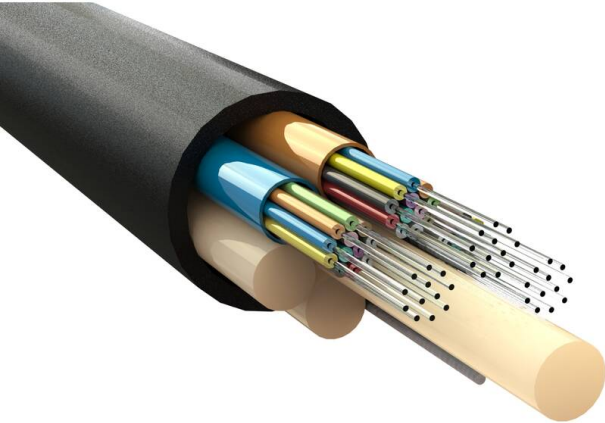


# Excel Enbeam OS2 Micro Blown G.652.D Fibre Cable Loose Tube 144 Core HDPE Fca Black

Item Code: 326-144



- ✕ G.652.D Compliant
- ✕ 12 to 432 cores available
- ✕ Small light weight design
- ✕ Recommended internal duct size - 10mm
- ✕ Euroclass Fca
- ✕ High Density Polyethylene (HDPE) outer jacket

### Product Overview

Enbeam OS2 Micro Blown SM G.652.D Fibre Cable Loose Tube 144 Core 9/125 HDPE Fca Black, part of a huge range of OS2 fibre optic cables fully stocked at Mayflex.  
The Enbeam Micro Blown fibre has been designed for blowing into the Enbeam Micro-duct system.

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.

### Product Specifications

Feature	Values
Number of Cores	144
Type of tube	Loose tube
Number of fibres per tube	12
Fibre type	Single mode 9/125
Category	OS2
Outer sheath material	HDPE
Outer sheath colour	Black

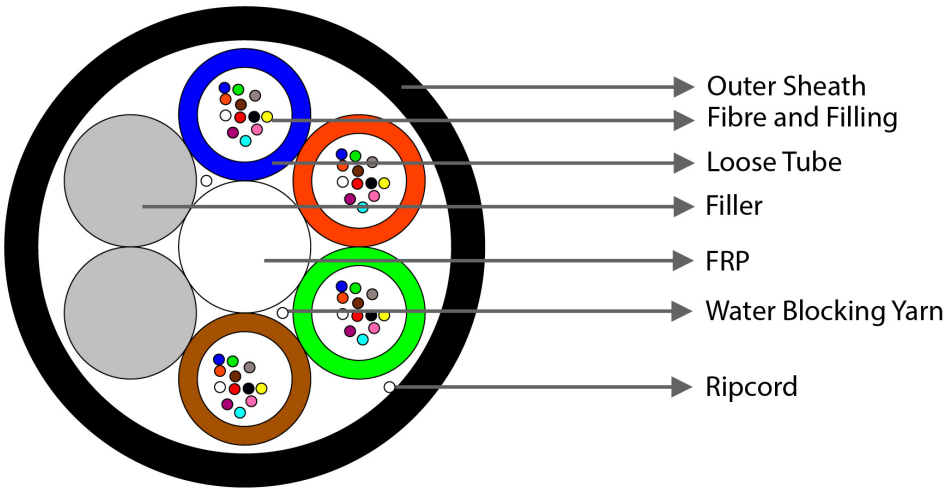
Excel Enbeam OS2 Micro Blown G.652.D Fibre Cable  
Loose Tube 144 Core HDPE Fca Black

Item Code: 326-144



Reaction-to-fire class according to EN 13501-6	Fca
Outer diameter approx.	8 mm
Blown system	yes

Product drawing



Colour coding (as per TIA-598-C)



For fibre core counts above 12 the colour sequence is repeated with the addition of a mark every 70mm for cores 13-24 and two marks for 25-36 and so on.

# Excel Enbeam OS2 Micro Blown G.652.D Fibre Cable Loose Tube 144 Core HDPE Fca Black

Item Code: 326-144



## Cable specifications

Features		Values
Weight (kg/km)	48-72 core	23 (nominal)
96-core	35 (nominal)	
144-core	52 (nominal)	
192-core	56 (nominal)	
288-core	81 (nominal)	
432-core	116 (nominal)	
Loose tube material		PBT
Type of filling compound		Jelly
Number of loose tubes/fillers	48-core	4/2
72-core	6/0	
96-core	8/0	
144-core	12/0	
192-core	16/2	
288-core	24/0	
432-core	18/0	
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

# Excel Enbeam OS2 Micro Blown G.652.D Fibre Cable Loose Tube 144 Core HDPE Fca Black

Item Code: 326-144



## Fibre specifications

Features		Values
Attenuation	@1310 nm	≤0.36 dB/km
@1383 nm	≤0.36 dB/km	
@1550 nm	≤0.25 dB/km	
@1625 nm	≤0.24 dB/km	
Chromatic Dispersion Coefficient	1285 nm - 1330 nm	≤3.5 ps/km·nm
@1550 nm	≤18.0 ps/km·nm	
Zero Dispersion Wavelength, $\lambda_0$		1300-1324 nm
Zero Dispersion Slope		≤0.092 ps/(km·nm <sup>2</sup> )
Cut-off Wavelength, $\lambda_{cc}$		≤1260 nm
Macro Bending Loss	100 turns, 30 mm radius	≤0.05 dB @ 1550 nm/1625 nm
Cladding Diameter		125.0±1.0 $\mu$ m
Cladding Non-circularity		≤0.6%
Primary Coating Diameter		250±15 $\mu$ m
Core Concentricity Error		≤0.6 $\mu$ m
Coating - Cladding Concentricity Error		≤12 $\mu$ m
Fibre Curl Radius		≥4 m
Mode Field Diameter	@1310 nm	9.2±0.4 $\mu$ m
Point discontinuity		≤0.05 dB
Proof Stress Level		≥100 kpsi (0.69 GPa), 1% strain
Coating strip force	Peak	1.3-8.9 N

## Standards

Applicable standard	Subject
IEC 60332-1-2:2004	Tests on electric and optical fibre cables under fire conditions. Test for vertical flame propagation for a single insulated wire or cable. Procedure for 1 kW pre-mixed flame
IEC 60754-2:2014+A1:2020	Test on gases evolved during combustion of materials from cables - Part 2: Determination of acidity (by pH measurement) and conductivity
IEC 61034-2:2005+A2:2020	Measurement of smoke density of cables burning under

# Excel Enbeam OS2 Micro Blown G.652.D Fibre Cable Loose Tube 144 Core HDPE Fca Black

Item Code: 326-144



defined conditions – Part 2: Test procedure and requirements

IEC 60793-1-1:2022	Optical fibres - Part 1-1: Measurement methods and test procedures - General and guidance
IEC 60793-1-20:2014	Optical fibres - Part 1-20: Measurement methods and test procedures - Fibre geometry
IEC 60793-1-21:2001	Optical fibres - Part 1-21: Measurement methods and test procedures - Coating geometry
IEC 60793-1-22:2001	Optical fibres - Part 1-22: Measurement methods and test procedures - Length measurement
IEC 60793-1-30:2010	Optical fibres - Part 1-30: Measurement methods and test procedures - Fibre proof test
ITU G.652.D	Characteristics of a single-mode optical fibre and cable
ITU-T G.657	Characteristics of a bending-loss insensitive single-mode optical fibre and cable
EN 50173-1:2018	Information technology. Generic cabling systems - General requirements
EN 50575: 2014 + A1: 2016	Power, control and communication cables — Cables for general applications in construction works subject to reaction to fire requirements
EN 50399:2011+A1:2016	Common test methods for cables under fire conditions. Heat release and smoke production measurement on cables during flame spread test. Test apparatus, procedures, results
ISO/IEC 11801-1:2017	Information technology - Generic cabling for customer premises: Part 1 General Requirements
ANSI/TIA 568-3.D	Optical Fiber Cabling and Components Standard
ANSI/TIA/EIA 598-D	Optical Fibre Cable Colour Coding
RoHS-II/-III (2011/65/EU & 2015/863): 2023	Our products, demonstrate full adherence to the regulatory stipulations of the EU Directive 2011/65/EU (RoHS-II) and its corresponding delegated directive 2015/863 (RoHS-III).
WFD: 2023	Compliant to Waste Framework Directive
SCIP: 2023	Compliant - Does Not Contain Substances of Concern In articles as such or in complex objects (Products)
POPs (EU) No 2019/1021	EU Regulation for the restriction of Persistent Organic Pollutants.

# Excel Enbeam OS2 Micro Blown G.652.D Fibre Cable Loose Tube 144 Core HDPE Fca Black

Item Code: 326-144



## Part Number Table

Part Number	Description
326-012	Excel Enbeam OS2 Micro Blown G.652.D Fibre Cable Loose Tube 12 Core HDPE Fca Black
326-048	Excel Enbeam OS2 Micro Blown G.652.D Fibre Cable Loose Tube 48 Core HDPE Fca Black
326-072	Excel Enbeam OS2 Micro Blown G.652.D Fibre Cable Loose Tube 72 Core HDPE Fca Black
326-096	Excel Enbeam OS2 Micro Blown G.652.D Fibre Cable Loose Tube 96 Core HDPE Fca Black
326-144	Excel Enbeam OS2 Micro Blown G.652.D Fibre Cable Loose Tube 144 Core HDPE Fca Black
326-192	Excel Enbeam OS2 Micro Blown G.652.D Fibre Cable Loose Tube 192 Core HDPE Fca Black
326-288	Excel Enbeam OS2 Micro Blown G.652.D Fibre Cable Loose Tube 288 Core HDPE Fca Black
326-432	Excel Enbeam OS2 Micro Blown G.652.D Fibre Cable Loose Tube 432 Core HDPE Fca Black

Excel is a world class premium performing end to end infrastructure solution designed, Manufactured, supported and delivered without compromise.

Contact us at [sales@excel-networking.com](mailto:sales@excel-networking.com)



E&OE. Excel is a registered trade name of Mayflex Holdings Ltd.