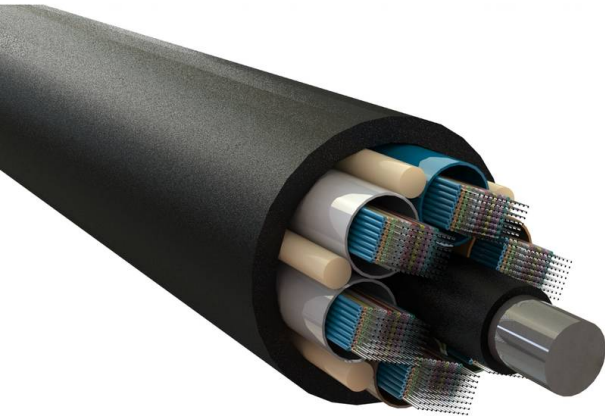


# Excel Enbeam OS2 G.652.D Ribbon Fibre Cable Multi Loose Tube 864 Core HDPE Fca Black

Item Code: 331-864



- Water Resistant & UV Resistant
- Duct grade - high core count
- Ribbon fibre construction
- Cut to length service
- Euroclass Fca
- High Density Polyethylene (HDPE) outer jacket

### Product Overview

Enbeam OS2 Singlemode G.652.D Ribbon Fibre Cable Multi Loose Tube 864 Core 9/125 HDPE Fca Black, part of a huge range of OS2 Fibre optic cables fully stocked at Mayflex.  
The Enbeam External Ribbon fibre has been designed for installation in underground duct systems.

The cable is constructed from multiple gel filled loose tubes around a central steel wire strength member, overlaid with water blocking yarn and then covered with a High Density Polyethylene (HDPE) outer jacket, allowing high core count fibres to be installed into the access network in both 576 and 864 Fibre core counts.

### Product Specifications

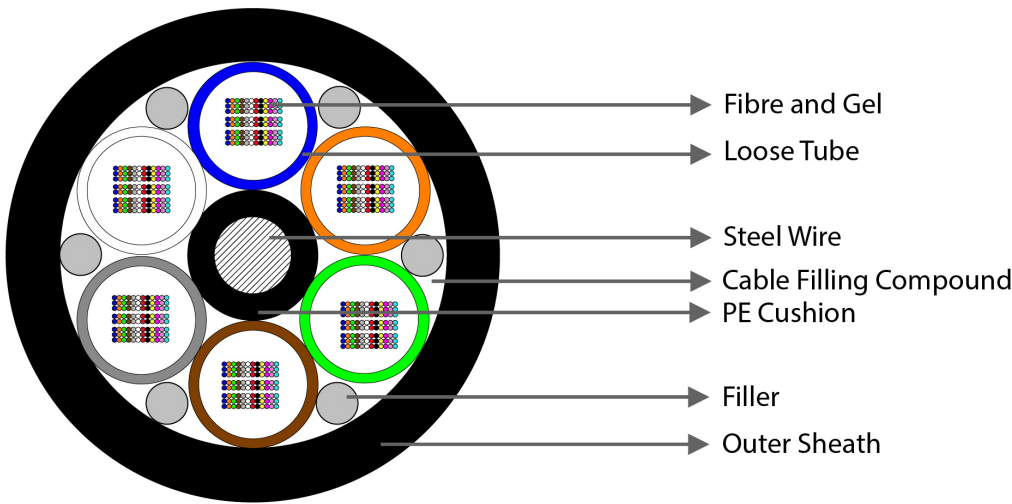
Feature	Values
Number of Cores	864
Type of tube	Loose tube
Fibre type	Single mode 9/125
Category	OS2
Outer sheath material	HDPE
Outer sheath colour	Black
Reaction-to-fire class according to EN 13501-6	Fca
Outer diameter approx.	26.3 mm

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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.

Cable specifications

Features		Values
Weight (kg/km)	576-core	446.0 (nominal)
	864-core	604.0 (nominal)
Fibre/Ribbon ID numbers	1-12	01
	13-24	02
	25-36	03
	37-48	04
	49-60	05

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	61-72	06
	73-84	07
	85-96	08
	97-108	09
	109-120	10
	121-132	11
	133-144	12
Max fibre counts per tube	576-core	RB12*8
	864-core	RB12*12
Central strength member	Type	Steel wire
Loose tube	Type	PBT
	Filling compound	Jelly
Outer sheath	Material	HDPE
Tensile Strength		1500N
Crush Resistance		1000 N
Minimum Bending Radius	short term	10D
	long term	20D

## Fibre specifications

Features		Values
Attenuation	@1310nm	≤0.38 dB/km
	@1383nm	≤0.38 dB/km
	@1550nm	≤0.28 dB/km
	@1625nm	≤0.30 dB/km
Chromatic Dispersion Coefficient	1288nm - 1339nm	≤3.5ps/km·nm
	1271nm - 1360nm	≤5.3ps/km·nm
	@1550nm	≤18.0ps/km·nm
	@1625nm	≤20.0ps/km·nm
Zero Dispersion Wavelength, $\lambda_0$		1300-1324nm
Zero Dispersion Slope		≤0.092 ps/(km·nm <sup>2</sup> )
Cut-off Wavelength, $\lambda_{cc}$		≤1260nm

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Polarization mode dispersion	Individual fibre	$\leq 0.2 \text{ ps}/\sqrt{\text{Km}}$
	Design link value (M=20, Q=0.01%)	$\leq 0.1 \text{ ps}/\sqrt{\text{Km}}$
Macro Bending Loss	100 turns, 30mm radius	$\leq 0.05 \text{ dB}@1550/1625 \text{ nm}$
Cladding Diameter		$125.0 \pm 1.0 \mu\text{m}$
Cladding Non-circularity		$\leq 1.0\%$
Primary Coating Diameter		$250 \pm 15 \mu\text{m}$
Core Concentricity Error		$\leq 0.6 \mu\text{m}$
Coating – Cladding Concentricity Error		$\leq 12 \mu\text{m}$
Fibre Curl Radius		$\geq 4 \text{ m}$
Mode Field Diameter	@1310nm	$9.2 \pm 0.4 \mu\text{m}$
	@1550nm	$10.4 \pm 0.5 \mu\text{m}$
Point discontinuity		$\leq 0.05 \text{ db}$
Proof Stress Level		$\geq 100 \text{ kpsi}$ (0.69 GPa), 1% strain
Coating strip force	Peak	1.3-8.9N

## 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 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

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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
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.

## Part Number Table

Part Number	Description
331-576	Excel Enbeam OS2 G.652.D Ribbon Fibre Cable Multi Loose Tube 576 Core HDPE Fca Black
331-864	Excel Enbeam OS2 G.652.D Ribbon Fibre Cable Multi Loose Tube 864 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)



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