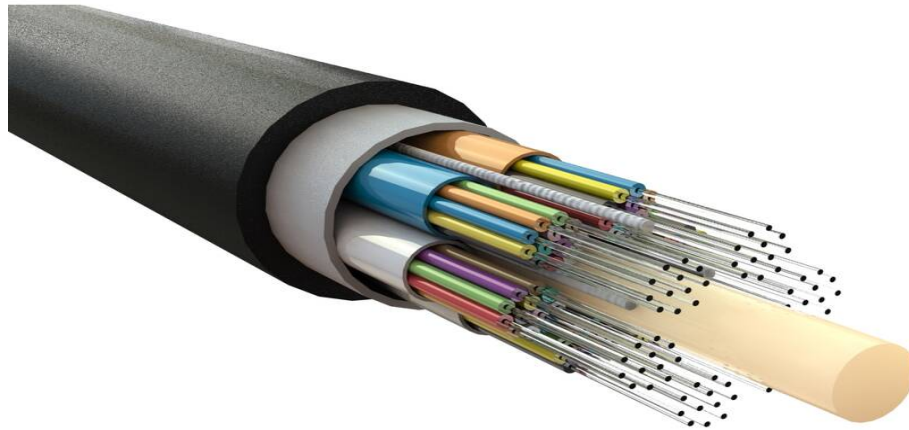


# Excel Enbeam OS2 G.652.D Fibre Cable Multi Loose Tube 96 Core HDPE Fca Black

excel  
without compromise.

Part Code: 330-096

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## Main Features

- / Water Resistant & UV Resistant
- / Duct grade - high core count
- / Sequentially metre marked
- / Cut to length service
- / Euroclass Fca
- / High Density Polyethylene (HDPE) outer jacket

## Product Overview

Enbeam OS2 Singlemode G.652.D Fibre Cable Multi Loose Tube 96 Core 9/125 HDPE Fca Black, part of a huge range of OS2 fibre optic cables fully stocked at Mayflex.

The Enbeam external multi loose tube fibre has been designed for installation in underground duct systems.

The cable is constructed from multiple gel filled loose tubes around a central strength member, overlaid with water blocking yarn and a water blocking tape then covered with a High Density Polyethylene (HDPE) outer jacket, allowing high core count fibres to be installed into the access network from 12 to 432 fibre core counts.

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## Product Specifications

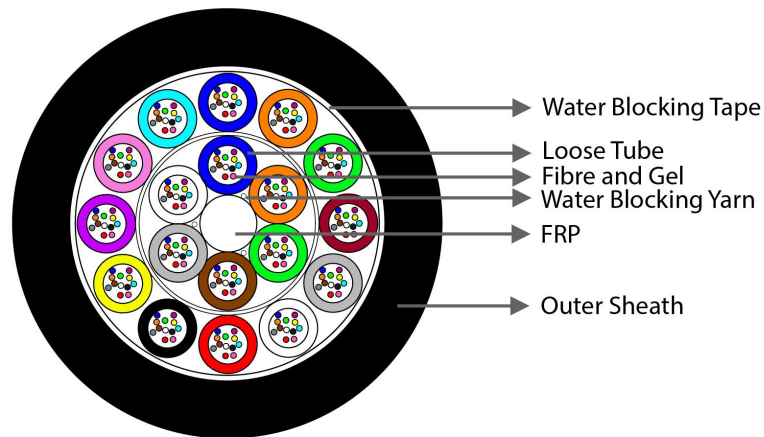
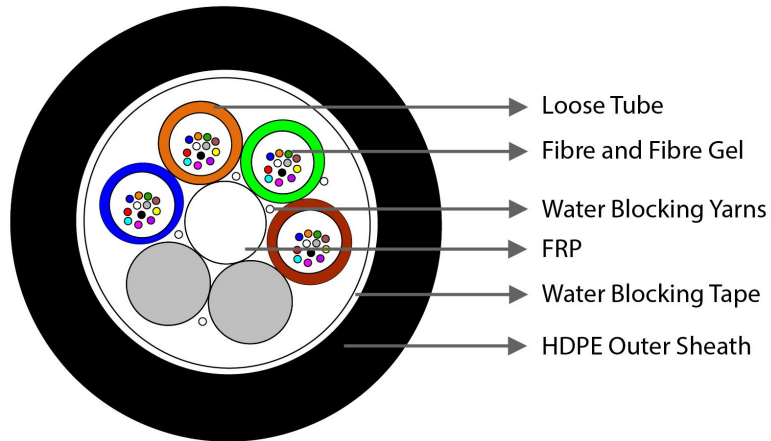
Feature	Values
Number of Cores	<b>96</b>
Type of tube	<b>Loose tube</b>
Number of fibres per tube	<b>12</b>
Fibre type	<b>Single mode 9/125</b>
Category	<b>OS2</b>
Outer sheath material	<b>HDPE</b>
Outer sheath colour	<b>Black</b>
Reaction-to-fire class according to EN 13501-6	<b>Fca</b>
Outer diameter approx.	<b>10 mm</b>

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## Product drawing

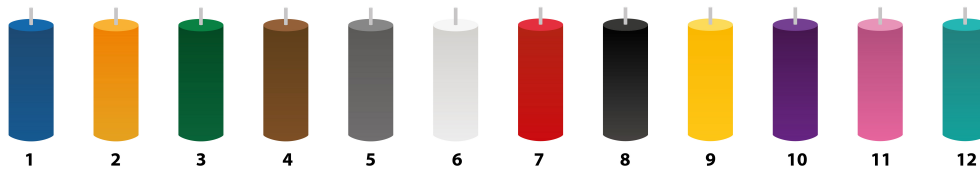


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## Colour coding (as per TIA-598-C)



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)	12-24 core	55.0 (nominal)
	48-72 core	55.0 (nominal)
	96-core	80.0 (nominal)
	144-core	130.0 (nominal)
	192-core	145.0 (nominal)
	288-core	170.0 (nominal)
	432-core	200.0 (nominal)
	Number of loose tubes/fillers	12-core
24-core		2/4
48-core		4/2
72-core		6/0
96-core		8/0
144-core		12/0
192-core		16/2

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	<b>288-core</b>	<b>24/0</b>
	<b>432-core</b>	<b>36/0</b>
Embedding strength member	<b>Type</b>	<b>FRP</b>
Loose tube filling compound		<b>Jelly</b>
Water blocking material		<b>Water blocking yarn + water blocking tape</b>
Outer sheath	<b>Material</b>	<b>HDPE</b>
Tensile strength		<b>2000 N</b>
Crush resistance		<b>2000 N</b>
Minimum bending radius		<b>20D</b>

## Fibre specifications

Features		Values
Attenuation	<b>@1310 nm</b>	<b>≤0.35 dB/km</b>
	<b>@1550 nm</b>	<b>≤0.21 dB/km</b>
Chromatic Dispersion Coefficient	<b>1285 nm – 1330 nm</b>	<b>≤3.5 ps/km·nm</b>
	<b>@1550 nm</b>	<b>≤18 ps/km·nm</b>
Zero Dispersion Wavelength, $\lambda_0$		<b>1300-1324 nm</b>
Zero Dispersion Slope		<b>≤0.092 ps/(km·nm<sup>2</sup>)</b>
Cut-off Wavelength, $\lambda_{cc}$		<b>≤1260 nm</b>
Polarization mode dispersion	<b>Individual fibre</b>	<b>≤0.2 ps/√Km</b>
	<b>Design link value (M=20, Q=0.01%)</b>	<b>≤0.1 ps/√Km</b>
Cladding Diameter		<b>125±0.7 μm</b>

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Cladding Non-circularity		≤1.0%
Primary Coating Diameter		245±10 µm
Core Concentricity Error		≤1.0 µm
Coating - Cladding Concentricity Error		≤0.8 µm
Fibre Curl Radius		≥4 m
Mode Field Diameter	@1310 nm	9.2±0.4 µm
Point discontinuity		≤0.5 dB
Proof Stress Level		≥100 kpsi (0.69 GPa)
Coating strip force	Peak	1.3-8.9 N

## Standards

Applicable standard	Subject
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
EN 50173-1:2018	Information technology. Generic cabling systems - General requirements

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EN 50575: 2014 + A1: 2016	Power, control and communication cables — Cables for general applications in construction works subject to reaction to fire requirements
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
Directive 2011/65/EU (RoHS II)	Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment — compliant. Applies within EU member states).
Directive (EU) 2015/863 (RoHS III)	Amending Directive 2011/65/EU to add four phthalates (DEHP, BBP, DBP, DIBP) to Annex II — compliant.
Directive 2008/98/EC (WFD)	Waste Framework Directive — compliant. Implemented in the UK through the Waste (England and Wales) Regulations 2011 (SI 2011 No. 988).
ECHA SCIP Database	Compliant; product does not contain SVHCs (Substances of Very High Concern) as defined under REACH Article 33(1). Submission obligations met under EU REACH and UK REACH.
Regulation (EU) 2019/1021 (POPs)	EU Regulation on Persistent Organic Pollutants — compliant. For Great Britain, compliance is aligned with the Persistent Organic Pollutants (Amendment) (EU Exit) Regulations 2020 (SI 2020 No. 1355).
UK SI 2012 No. 3032	The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 (UK RoHS) — compliant for Great Britain. Retained EU law, as amended by the Product Safety and Metrology (Amendment etc.) (EU Exit) Regulations 2019.

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## Part Code Table

Part Code	Description
330-012	Excel Enbeam OS2 G.652.D Fibre Cable Multi Loose Tube 12 Core HDPE Fca Black
330-024	Excel Enbeam OS2 G.652.D Fibre Cable Multi Loose Tube 24 Core HDPE Fca Black
330-048	Excel Enbeam OS2 G.652.D Fibre Cable Multi Loose Tube 48 Core HDPE Fca Black
330-072	Excel Enbeam OS2 G.652.D Fibre Cable Multi Loose Tube 72 Core HDPE Fca Black
330-096	Excel Enbeam OS2 G.652.D Fibre Cable Multi Loose Tube 96 Core HDPE Fca Black
330-144	Excel Enbeam OS2 G.652.D Fibre Cable Multi Loose Tube 144 Core HDPE Fca Black
330-192	Excel Enbeam OS2 G.652.D Fibre Cable Multi Loose Tube 192 Core HDPE Fca Black
330-288	Excel Enbeam OS2 G.652.D Fibre Cable Multi Loose Tube 288 Core HDPE Fca Black
330-432	Excel Enbeam OS2 G.652.D Fibre Cable Multi Loose Tube 432 Core HDPE Fca Black