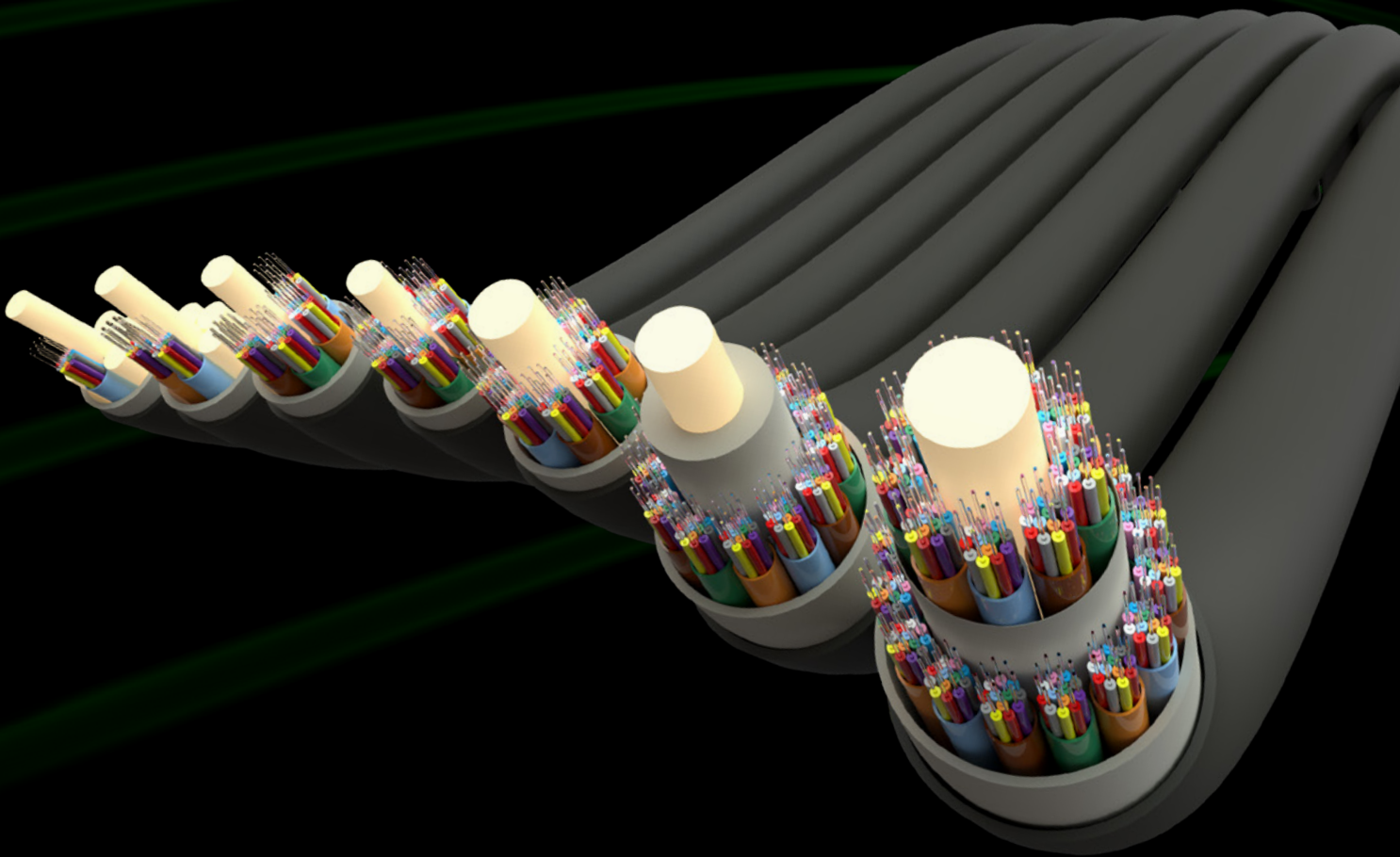




# Enbeam Duct Cable



## ENBEAM DUCT CABLE

### PRODUCT OVERVIEW

The Enbeam external multi loose tube fibre has been designed for installation in underground duct systems. Made from OS2 Singlemode G.657.A1 fibre this multi Loose Tube 9/125 HDPE Fca black cable is available with 12 to 288 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 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 288 Fibre core counts.

### FIBRE SPECIFICATION

Attenuation	@1310nm	≤0.35 dB/km
	@1550nm	≤0.21 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 <sup>2</sup> )
Cut-off wavelength, $\lambda_{cc}$		≤1260 nm
Polarization mode dispersion	Individual fibre	≤0.2 ps/√Km
	Design link value (M=20, Q=0.01%)	≤0.1 ps/√Km
Cladding diameter		125.0±1.0 μm
Cladding non-circularity		≤2.0%
Primary coating diameter		245±10 μm
Core concentricity error		≤0.8 μm
Coating - cladding concentricity error		≤0.8 μm
Fibre curl radius		≥4m
Mode field diameter	@1310nm	9.2±0.4 μm
Point discontinuity		≤0.5 dB
Proof stress Level		≥100kpsi (0.69 GPa)
Coating strip force	Peak	1.3-8.9 N

## CABLE SPECIFICATION

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)
	288 core	170.0 (nominal)
Tensile strength		2000 N
Crush resistance		2000 N
Minimum bending radius during installation		20D
After installation		10D
Temperature operating		-10°C to 70°C

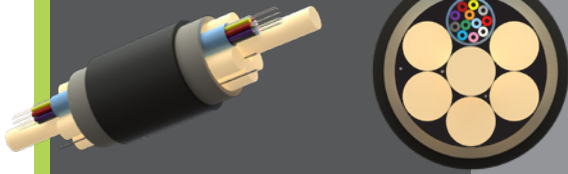
## PRODUCT SPECIFICATION

Number of cores	12 to 288
Type of tube	Loose tube
Number of fibres per tube	12
Fibre type	Single mode 9/125
Category	OS2
Outer sheath colour	Black
Reaction-to-fire class according to EN 13501-6	Fca
Outer diameter approx.	Various

## PART NUMBER INFORMATION

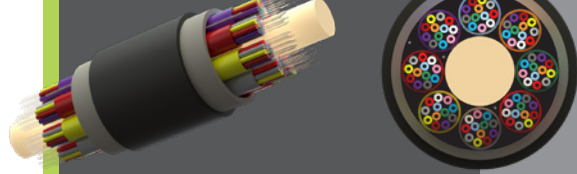
Part Number	Product Description
332-012	Excel Enbeam OS2 Singlemode G.657.A1 Fibre Cable Multi Loose Tube 12 Core 9/125 HDPE Fca Black
332-024	Excel Enbeam OS2 Singlemode G.657.A1 Fibre Cable Multi Loose Tube 24 Core 9/125 HDPE Fca Black
332-048	Excel Enbeam OS2 Singlemode G.657.A1 Fibre Cable Multi Loose Tube 48 Core 9/125 HDPE Fca Black
332-072	Excel Enbeam OS2 Singlemode G.657.A1 Fibre Cable Multi Loose Tube 72 Core 9/125 HDPE Fca Black
332-096	Excel Enbeam OS2 Singlemode G.657.A1 Fibre Cable Multi Loose Tube 96 Core 9/125 HDPE Fca Black
332-144	Excel Enbeam OS2 Singlemode G.657.A1 Fibre Cable Multi Loose Tube 144 Core 9/125 HDPE Fca Black
332-288	Excel Enbeam OS2 Singlemode G.657.A1 Fibre Cable Multi Loose Tube 288 Core 9/125 HDPE Fca Black

332-012



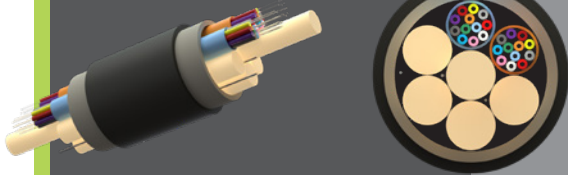
Number of cores	12
Number of fibres per tube	12
Number of tubes	1
Number of fillers	5

332-096



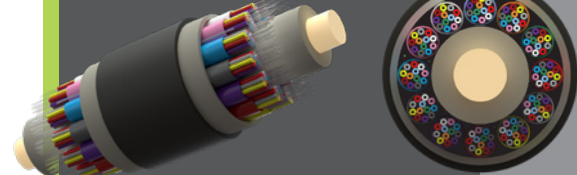
Number of cores	96
Number of fibres per tube	12
Number of tubes	8
Number of fillers	0

332-024



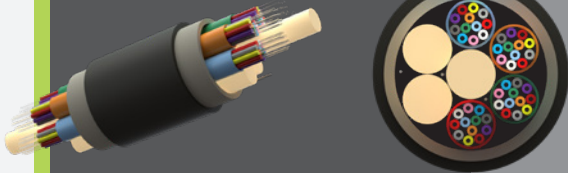
Number of cores	24
Number of fibres per tube	12
Number of tubes	2
Number of fillers	4

332-144



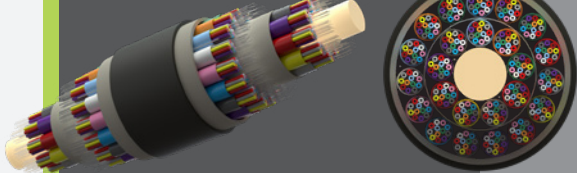
Number of cores	144
Number of fibres per tube	12
Number of tubes	12
Number of fillers	0

332-048



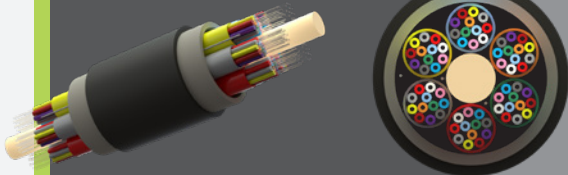
Number of cores	48
Number of fibres per tube	12
Number of tubes	4
Number of fillers	2

332-288



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

332-072



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



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