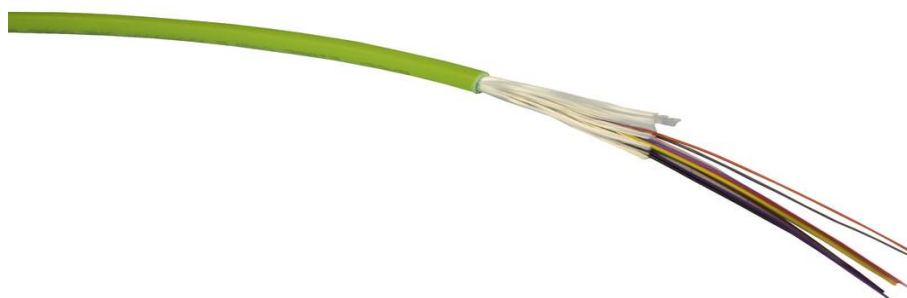


Excel Enbeam OM5 Tight Buffered 24 Core Internal Cable LSOH B2ca Lime Green

excel
without compromise.

Part Code: 299-124

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Main Features

- / Suitable for internal use only
- / Sequential meter mark
- / Cut to length service
- / 25 year warranty
- / Euroclass: B2ca-s1,d1,a1

Product Overview

Excel Enbeam OM5 distribution cables have been designed specifically for internal applications. The multi mode fibre offers OM5 performance and backwards compatibility.

The cables are constructed using multiple buffered fibres from 4 to 24 coloured 900 µm fibres surrounded by aramid yarn around a central FRP strength member.

This allows the cable to be used in internal applications with a Euroclass rating of B2ca.

Product Specifications

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Feature	Values
Number of Cores	24
Type of tube	Tight
Number of fibres per tube	24
Fibre type	Multi mode 50/125
Category	OM5
Outer sheath material	LSZH
Outer sheath colour	Lime green
Reaction-to-fire class according to EN 13501-6	B2ca
Smoke development class according to EN 13501-6	s1a
Euro class flaming droplets/particles according to EN 13501-6	d1
Euro class acidity according to EN 13501-6	a1
Outer diameter approx.	6.5 mm

Additional specifications

Feature	Value
Tensile Strength	Long Term
	300 N
Crush Resistance	Short term
	900 N
Temperature performance	Long Term
	300 N/m
	Short term
	1000 N/m
Temperature performance	Installation
	-5°C to +70°C
	Operation
Temperature performance	-20°C to +70°C
	Storage
Temperature performance	-40°C to +70°C

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Number of fibre		45508
Peripheral Strength Member		E Glass
Central Strength Member		GFRP
Outer Sheath	Thickness	1.0 mm (Nominal)
	Material	LSZH
Bending Radius	Short term	20 x Diameter
	Long term	10 x Diameter
Attenuation	@850nm	≤ 3.5 dB/km
	@1300 nm	≤1.5 dB/km
Core Cladding Concentricity Error		≤ 2 µm
Cladding Diameter		125 ± 1 µm
Cladding Non-circularity		≤ 6 %
Coating Diameter		250 ± 10 µm
Coating Cladding Concentricity Error		≤ 12.5

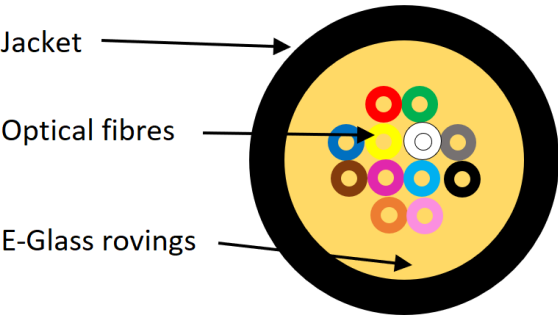
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Cross-section diagram



Standards

Applicable standard	Subject
IEC 60794-2-20:2013	Optical fibre cables - Part 2-20: Indoor cables - Family specification for multi-fibre optical cables
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 60754-2:2011	Test on gases evolved during combustion of materials from cables - Part 2: Determination of acidity (by pH measurement) and conductivity
IEC 61034-2:2005+A1:2013	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 60793-2-10:2017	Sectional specification for A1 multimode fibres
IEC 60793-1-20:2014	Optical fibres - Part 1-20: Measurement methods and test procedures - Fibre geometry

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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
IEC 60793-1-41:2010	Optical fibres - Part 1-41: Measurement methods and test procedures - Bandwidth
ITU G.651.1	Characteristics of a 50/125 µm multimode graded index optical fibre cable for the optical access network
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
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.

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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.

Part Code Table

Part Code	Description
299-104	Excel Enbeam OM5 Tight Buffered 4 Core Internal Cable LSOH B2ca Lime Green
299-108	Excel Enbeam OM5 Tight Buffered 8 Core Internal Cable LSOH B2ca Lime Green
299-112	Excel Enbeam OM5 Tight Buffered 12 Core Internal Cable LSOH B2ca Lime Green
299-116	Excel Enbeam OM5 Tight Buffered 16 Core Internal Cable LSOH B2ca Lime Green
299-124	Excel Enbeam OM5 Tight Buffered 24 Core Internal Cable LSOH B2ca Lime Green