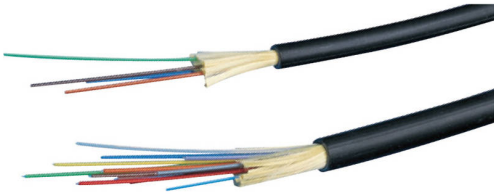


# Enbeam OM4 Multimode 50/125 4 Core Fibre Optic Cable Tight Buffered Cca - Black

Item Code: 204-104



X Sequentially metre marked

X Cut to length service

X Euroclass Cca-s1a-d0-a1

## Product overview

Excel OM4 50/125µm tight buffered optical fibre cables have been designed specifically for internal and external applications. These compact, lightweight cables are extremely flexible and are quick and easy to install.

The cables are constructed around an E-Glass strength member containing up to 24 colour coded 900µm tight buffered fibres, covered with a flame retardant, low smoke zero halogen, outer sheath.

The print legend on the cable now includes information regarding the DOP number, Test and Classification of the cable for traceability.

## Product specifications

| Features  | Values                          |
|---|---------------------------------|
| Number of Cores   | 4                               |
| Type of tube  | Tight                           |
| Fibre type  | Multi mode 50/125               |
| Category  | OM4                             |
| Armouring   | no                              |
| Rodent resistant  | yes                             |
| Outer sheath material   | Copolymer, thermoplastic (LS0H) |
| Outer sheath colour   | Black                           |
| Reaction-to-fire class according to EN 13501-6                | Cca                             |
| Smoke development class according to EN 13501-6               | s1a                             |
| Euro class flaming droplets/particles according to EN 13501-6 | d0                              |
| Euro class acidity according to EN 13501-6                    | a1                              |
| Halogen free (acc. EN 60754-1/2)                              | yes                             |

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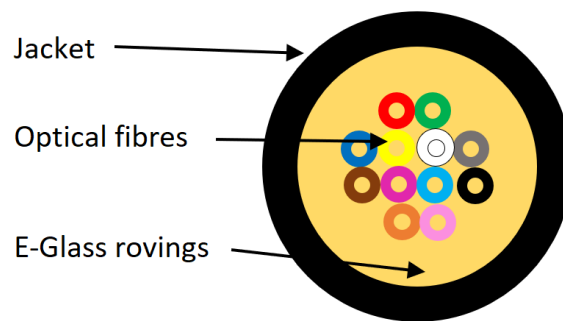
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| Features                       | Values                      |
|--------------------------------|-----------------------------|
| Flame retardant                | In accordance with EN 50399 |
| Low smoke (acc. BS EN 61034-2) | yes                         |
| Outer diameter approx.         | 6.5 mm                      |

## Cross-section diagram



## Cable specifications

| Features                               | Values                                |
|--|---------------------------------------|
| Fibre Colour Code Standard             | TIA 598                               |
| Strength members                       | E-Glass Rovings                       |
| Tensile Strength (during installation) | 4 to 12 cores<br>16 cores<br>24 cores |
|  | 1500N<br>2100N<br>2400N               |
| Tensile strength (installed)           | 4 to 12 cores<br>16 cores<br>24 cores |
|  | 500N<br>1000N<br>1500N                |
| Impact                                 | 20J                                   |
| Crush                                  | 3000N/100mm                           |
| Torsion                                | 5 cycles +/- 1 turn                   |
| Temperature range (installed)          | -20 to +70C                           |
| Temperature range (storage)            | -40 to +70C                           |

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## Fibre specifications

| Features                             | Values      |
|--------------------------------------|-------------|
| Core diameter                        | 50±2.5um    |
| Cladding diameter                    | 125.0±1.0um |
| Primary Coating diameter             | 250±15um    |
| Max. attenuation at 850nm            | 3.0 dB/km   |
| Max attenuation at 1300nm            | 1.0 dB/km   |
| Refractive Index at 850nm            | 1.482       |
| Refractive Index at 1300nm           | 1.477       |
| Numerical aperture                   | 0.200±0.015 |
| Overfilled Modal Bandwidth at 850nm  | 3500 MHz.km |
| Overfilled Modal Bandwidth at 1300nm | 500 MHz.km  |

## 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 60793-1-1:2017       | 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   |
| 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   |

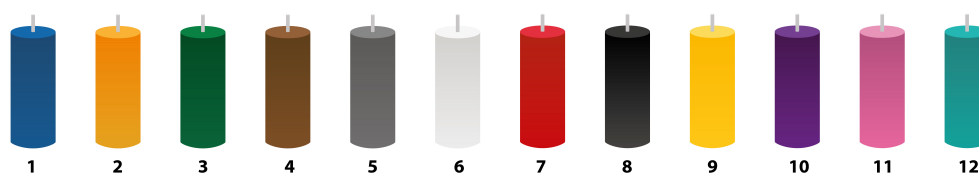
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| Applicable standard       | Subject   |
|---------------------------|---|
| IEC 60793-1-30:2010       | Optical fibres - Part 1-30: Measurement methods and test procedures - Fibre proof test  |
| ITU G.651.1               | Characteristics of a 50/125 µm multimode graded index optical fibre cable for the optical access network  |
| EN 50173-1:2011           | 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                      | Restriction of Hazardous Substances - Compliant   |



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.

## Part number table

| Part Number | Description  |
|-------------|--|
| 204-104     | Enbeam OM4 Multimode 50/125 4 Core Fibre Optic Cable Tight Buffered Cca - Black  |
| 204-106     | Enbeam OM4 Multimode 50/125 6 Core Fibre Optic Cable Tight Buffered Cca - Black  |
| 204-108     | Enbeam OM4 Multimode 50/125 8 Core Fibre Optic Cable Tight Buffered Cca - Black  |
| 204-112     | Enbeam OM4 Multimode 50/125 12 Core Fibre Optic Cable Tight Buffered Cca - Black |
| 204-116     | Enbeam OM4 Multimode 50/125 16 Core Fibre Optic Cable Tight Buffered Cca - Black |
| 204-124     | Enbeam OM4 Multimode 50/125 24 Core Fibre Optic Cable Tight Buffered Cca - Black |

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