# Excelerator Pre-Terminated Break-out Cables

- 8 core to 48 core
- 2.0mm Fanout Construction
- Multimode and Singlemode
- SC or LC connectivity

## Features

- 8 core to 48 core
- Multimode and Singlemode
- LSOH outer sheath as standard
- Alternative core counts, connectivity and sheath colours on request
- 2.0mm Fanout Construction
- SC or LC connectivity
- Supplied with protective mesh sleeve
- 25 Year System Warranty Available

## Product Overview

The purpose of this data sheet is to provide a generic overview of Excelerator Pre Terminated Break-out cables. For further specification, pricing or application details please contact your local Excel sales representative, integrator or distributor.

Excelerator pre terminated Break-out cables are constructed from customer defined 2mm Tight Buffered multi core fibre cable. Standard cable assemblies are designed to offer a high degree of flexibility through available features and options and include choices of multimode and singlemode, core counts and connector style's allowing each cable to be manufactured to fit the exact application.

Typically cables are terminated on both ends via a 'fan out' assembly. Unless specified otherwise the fan out will measure 1 metre from the heatshrink to tip of connector. When delivered the fan outs are protected by means of a black mesh braid formed to include a ring style pulling eye at the pulling end of the cable assembly.

Unless requested all cables lengths are measured from tip to tip of connectors.

Assemblies are generally supplied with matched connectors at ends A and B, however Excel can supply mixed connector styles for example LC to SC if required.

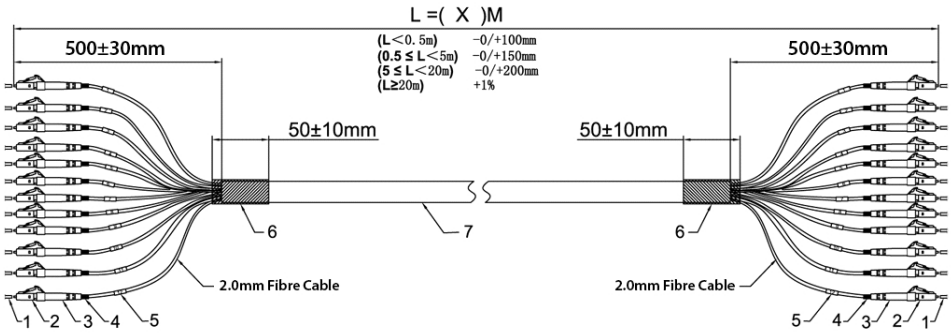
A generic identification label is affixed to each end of the assembly 50 mm from the heatshrink; customer specific labelling schemes can be applied on request.

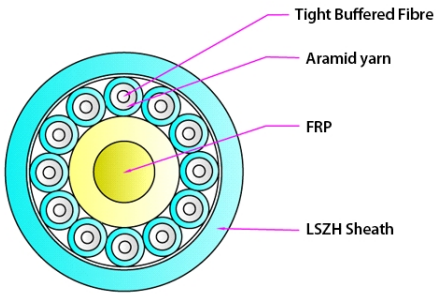
Excelerator Pre-Terminated Break-out cables are extremely robust, yet compact and flexible in design. This together with the range of core counts, and connectivity available make them ideal for use in direct patching applications from panel to switch blade, panel to server, or switch to server.

## Cable Designs

**Excelerator Pre-Terminated Break-out Cables - LC_LC 2.0mm, Fanout 1m.**

The drawing below shows the construction of a 12 core LC to LC pre-terminated Break-out cable. Construction details and design are consistent across all Excelerator pre-terminated Break-out cables

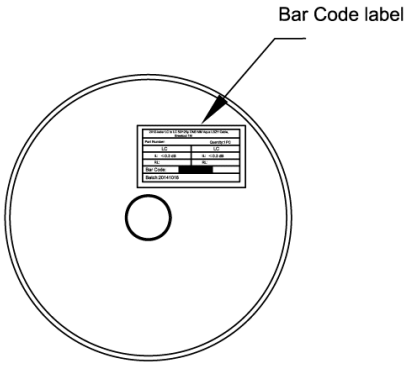


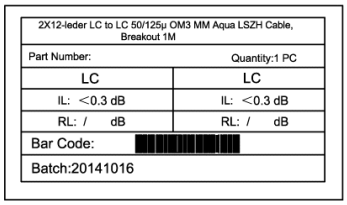




| Drawing Ref | Description | Qty |
|---|---|---|
| 1 | LC (or connector as specified) Dust Cover | Core Count Specific |
| 2 | LC (or connector as specified) connector | Core Count Specific |
| 3 | LC (or connector as specified) 2mm strain relief boot | Core Count Specific |
| 4 | 2.0MM Fanout Fibre Cable, 0.5Mtr as standard | Core Count Specific |
| 5 | Identification Cable | Core Count Specific |
| 6 | Heatshrink, Black | 2 |
| 7 | Break-out cable LSOH. Core count and Performance category customer specified | Customer specified |

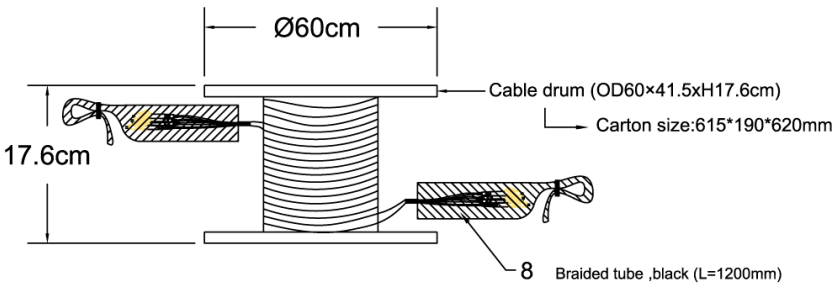
## Packaging

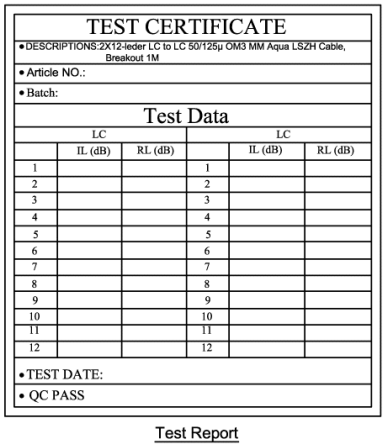
Each Excelerator Pre Terminated cable is individually tested in a factory environment, and supplied complete with test data and bar code labelling for traceability and identification purposes.




Bar Code Label (100mmX60mm)



TEST CERTIFICATE

- DESCRIPTIONS:2X12-leder LC to LC 50/125µ OM3 MM Aqua LSZH Cable, Breakout 1M
- Article NO.:
- Batch:

Test Data

| | LC | | | LC | |
|---|---|---|---|---|---|
| | IL (dB) | RL (dB) | | IL (dB) | RL (dB) |
| 1 | | | 1 | | |
| 2 | | | 2 | | |
| 3 | | | 3 | | |
| 4 | | | 4 | | |
| 5 | | | 5 | | |
| 6 | | | 6 | | |
| 7 | | | 7 | | |
| 8 | | | 8 | | |
| 9 | | | 9 | | |
| 10 | | | 10 | | |
| 11 | | | 11 | | |
| 12 | | | 12 | | |

- TEST DATE:
- QC PASS

Test Report

| Drawing Ref | Description | Qty |
|---|---|---|
| 8 | Mesh Braid Protective Sleeve | 2 |

## Cable Diameter

The following table details the outside diameter of the cable used in each assembly.

The cable diameters shown apply to all multimode and single mode cable.

| No Of Fibre Cores | Cable Diameter (mm) | Cable Weight (kg/km) |
|---|---|---|
| 8 | 10.5 | 88 |
| 12 | 12.5 | 128 |
| 16 | 13.0 | 138 |
| 24 | 15.5 | 198 |
| 48 | 20.0 | 246 |

## Performance Specification

| Fibre Attenuation | OM3 <150Mtr | OM3 150 - 300Mtr | OM4 | OS2 |
|---|---|---|---|---|
| Maximum cable attenuation @ 850nm | 3.5dB/km | 3.5dB/km | 3.5dB/km | |
| Maximum cable attenuation @ 1300nm | 1.5dB/km | 1.5dB/km | 1.5dB/km | |
| Maximum cable attenuation @ 1310nm | | | | 0.4dB/km |
| Maximum cable attenuation @ 1550nm | | | | 0.3dB/km |
| **Bandwidth** | | | | |
| Minimum Bandwidth @ 850nm | 700 | 1500 | 3500 | |
| Overfilled (OFL) Modal Bandwidth @ 1300nm | 500 | 500 | 500 | |
| Minimum Bandwidth Laser Effective @ 850nm | 950 | 2000 | 4700 | |
| Complies with specification standard | IEC 60794-1-1 | IEC 60794-1-1 | IEC 60794-1-1 | IEC 60794-1-1 |

| Connector Performance Characteristics | SC | LC |
|---|---|---|
| Insertion Loss (dB @850nm ) | <0.3 | <0.3 |
| Ferrule | 2.5mm ceramic | 2.5mm ceramic |
| Housing | Composite | Composite |
| Connector Design | IEC 61754-4 | IEC 61754-2 |

For cable specification details not shown in this pre-terminated assembly data sheet please refer to the relevant Excel cable specification data sheet.

## OM3 Part Number Information

| Part No. | Description |
|---|---|
| 209-B08-OM3-2YY-2ZZ-XXX | Excelerator OM3 8 core Break-out cable - Aqua |
| 209-B12-OM3-2YY-2ZZ-XXX | Excelerator OM3 12 core Break-out cable - Aqua |
| 209-B16-OM3-2YY-2ZZ-XXX | Excelerator OM3 16 core Break-out cable - Aqua |
| 209-B24-OM3-2YY-2ZZ-XXX | Excelerator OM3 24 core Break-out cable - Aqua |
| 209-B48-OM3-2YY-2ZZ-XXX | Excelerator OM3 48 core Break-out cable - Aqua |

## OM4 Part Number Information

| Part No. | Description |
|---|---|
| 209-B08-OM4-2YY-2ZZ-XXX | Excelerator OM4 8 core Break-out cable - Aqua |
| 209-B12-OM4-2YY-2ZZ-XXX | Excelerator OM4 12 core Break-out cable - Aqua |
| 209-B16-OM4-2YY-2ZZ-XXX | Excelerator OM4 16 core Break-out cable - Aqua |
| 209-B24-OM4-2YY-2ZZ-XXX | Excelerator OM4 24 core Break-out cable - Aqua |
| 209-B48-OM4-2YY-2ZZ-XXX | Excelerator OM4 48 core Break-out cable - Aqua |

## OS2 Part Number Information

| Part No. | Description |
|---|---|
| 209-B08-OS2-2YY-2ZZ-XXX | Excelerator OS2 8 core Break-out cable - Yellow |
| 209-B12-OS2-2YY-2ZZ-XXX | Excelerator OS2 12 core Break-out cable - Yellow |
| 209-B16-OS2-2YY-2ZZ-XXX | Excelerator OS2 16 core Break-out cable - Yellow |
| 209-B24-OS2-2YY-2ZZ-XXX | Excelerator OS2 24 core Break-out cable - Yellow |
| 209-B48-OS2-2YY-2ZZ-XXX | Excelerator OS2 48 core Break-out cable - Yellow |

**Key**

YY = Connector style - A end

ZZ = Connector style - B end

XXX = Length in metres

## System Warranty

The Excel System Warranty provides a 25-year product and applications assurance of compliance with the industry performance standard appropriate to the class of cabling installed. The warranty may be applied for by an accredited Excel Partner who has designed, supplied and installed the said system.

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