



X 8 core to 48 core

X 2.0mm or 900 Micron Fanout Construction

X Multimode and Singlemode

X SC or LC connectivity

Features

- 8 core to 48 core
- Multimode and Singlemode
- Supplied with protective tube or sleeve if fanout is 900 micron
- LSOH outer sheath as standard
- 2.0mm or 900 Micron Fanout Construction
- SC or LC connectivity
- Alternative core counts, connectivity and sheath colours on request
- 25 Year System Warranty Available

Product Overview

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

Excelerator pre terminated Mini Break-out cables are constructed from multi core tight buffered 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 with matched connectors at ends A and B, however Excel can supply mixed connector styles for example LC to SC if required.

As standard the length of each fan out for all core counts between 8 and 48 core cables is 1 metre +/- 50mm, whether 2.0mm diameter tight buffered cable or 900 micron tubes.

The 900 micron tubes are staggered in groups of 6 or 12 cores to aid with dressing within the fibre panels with the distance between each group being 35mm. They are protected by means of a transparent protection tube to which a ring style pulling eye is fixed to one end of the cable assembly. 2.0mm fan outs are constructed to the same length.

Unless requested all cables lengths are measured from tip to tip of connectors, where fan outs are staggered, this length is measured from longest fan out core to longest fan out core.

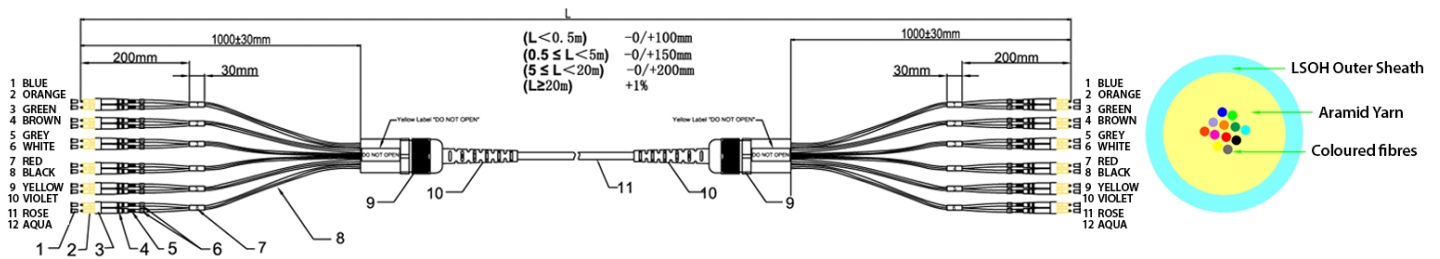
Each cable is fitted with strain relief cable glands so that they may be fitted directly to the rear of an Excel Fibre Optic Patch Panels. A generic cable identification label is affixed to each end of the assembly 50 mm from the gland; customer specific labelling schemes can be applied on request.

Excelerator Pre-Terminated Mini Break-out cables are extremely compact, lightweight and robust. This together with the range of core counts, and connectivity available make them ideal for use as links from patch panel to equipment, patch panel to patch panel, patch panel to consolidation points, and rack to rack links.

Cable Designs

Excelerator Pre-Terminated Mini Break-out Cables - LC_LC 600 Micron, Fan-out 1.0m.

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

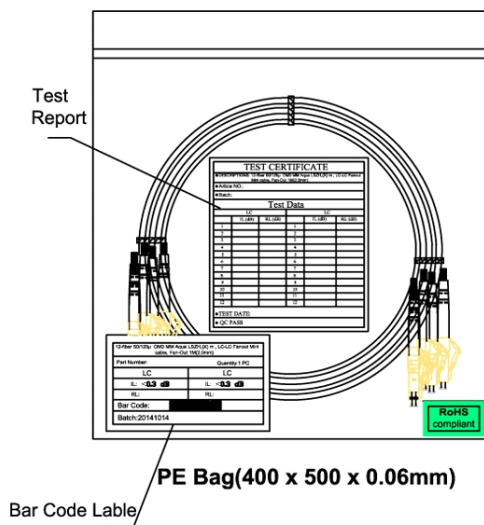


Drawing Ref	Description	Qty
1	LC (or connector as specified) Dust Cover	Core Count Specific
2	LC (or connector as specified) Simplex connector	Core Count Specific
3	LC (or connector as specified) clip, clear - allows connector polarity to be 'switched'	Core Count Specific
4	LC (or connector as specified) strain relief boot	Core Count Specific
5	LC (or connector as specified) heatshrink tube	Core Count Specific
6	A ring / B ring 'leg identifier'	Core Count Specific
7	Channel (pair of fibres identification, eg number 1-6 in 12 core cable)	Core Count Specific
8	Fan out tubing - 900 micron for 8,12,16, 24 core - 2.0mm for 48 and 72 core	Core Count Specific
9	Gland / splitter assembly, black	2
10	Strain relief boot	
11	Mini Break-out cable LSOH. Core count and Performance category customer specified	Customer specified

Packaging

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

Packaging method will be dependent on core count and assembly length, and will be either poly bag as used for standard patch cords, or drum.



TEST CERTIFICATE				
• DESCRIPTIONS: 12-Fiber 50/125µ OM3 MM Aqua LSZH,(X) m , LC-LC Fanout Mini cable, Fan-Out 1M(2.0mm)				
• 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

12-fiber 50/125µ OM3 MM Aqua LSZH,(X) m , LC-LC Fanout Mini cable, Fan-Out 1M(2.0mm)	
Part Number:	Quantity: 1 PC
LC	LC
IL: <0.3 dB	IL: <0.3 dB
RL:	RL:
Bar Code:	
Batch: 20141014	

Bar Code Label (100mmX60mm)

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. Cables are constructed from the required number of cores packed within Kevlar and a single outer sheath.

No Of Fibre Cores	Cable Diameter (mm)	Cable Weight (kg/km)
8	3	7.7
12	3	7.8
16	3.4	14
24	3.5	12.5
32	9	77
36	9	78
48	9	80

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-M08-OM3-OYY-OZZ-XXX	Excelerator OM3 8 core Mini Break-out cable - Aqua
209-M12-OM3-OYY-OZZ-XXX	Excelerator OM3 12 core Mini Break-out cable - Aqua
209-M16-OM3-OYY-OZZ-XXX	Excelerator OM3 16 core Mini Break-out cable - Aqua
209-M24-OM3-OYY-OZZ-XXX	Excelerator OM3 24 core Mini Break-out cable - Aqua
209-M48-OM3-OYY-OZZ-XXX	Excelerator OM3 48 core Mini Break-out cable - Aqua

OM4 Part Number Information

Part No.	Description
209-M08-OM4-OYY-OZZ-XXX	Excelerator OM4 8 core Mini Break-out cable - Aqua
209-M12-OM4-OYY-OZZ-XXX	Excelerator OM4 12 core Mini Break-out cable - Aqua
209-M16-OM4-OYY-OZZ-XXX	Excelerator OM4 16 core Mini Break-out cable - Aqua
209-M24-OM4-OYY-OZZ-XXX	Excelerator OM4 24 core Mini Break-out cable - Aqua
209-M48-OM4-OYY-OZZ-XXX	Excelerator OM4 48 core Mini Break-out cable - Aqua

OS2 Part Number Information

Part No.	Description
209-M08-OS2-OYY-OZZ-XXX	Exceleator OS2 8 core Mini Break-out cable - Yellow
209-M12-OS2-OYY-OZZ-XXX	Exceleator OS2 12 core Mini Break-out cable - Yellow
209-M16-OS2-OYY-OZZ-XXX	Exceleator OS2 16 core Mini Break-out cable - Yellow
209-M24-OS2-OYY-OZZ-XXX	Exceleator OS2 24 core Mini Break-out cable - Yellow
209-M48-OS2-OYY-OZZ-XXX	Exceleator OS2 48 core Mini 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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