

X 8 core to 48 core

X 900 Micron Fanout Construction

X Multimode and Singlemode

X SC and 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
- 900 Micron Fanout Construction
- SC and LC connectivity
- Supplied with protective tube and pulling eye
- 25 Year System Warranty Available

Product Overview

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

Excelerator pre terminated distribution cables are constructed from customer defined multi core 900 micron, tight buffered distribution cable. Standard options available are designed to meet most requirements and include choices of multimode and singlemode, core counts and connector style's.

Typically cables are terminated on both ends; the 'fan out' assembly will be staggered in groups of cores at 50mm intervals. Unless specified otherwise the longest fan out will measure 1 metre from the gland assembly to tip of connector. The fan outs are protected by means of a transparent protection tube to which a ring style pulling eye is fixed to the pulling end of the cable assembly.

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 to longest fan out.

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.

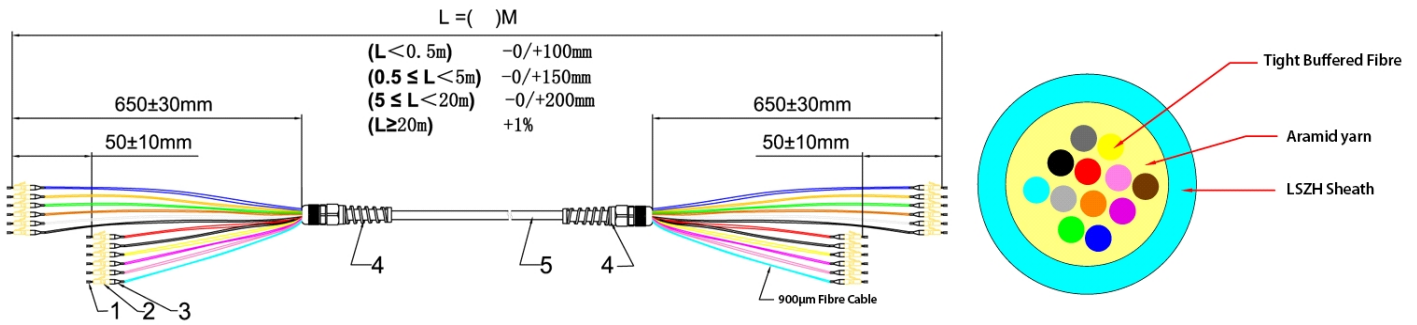
Each cable is fitted with strain relief cable glands so that they may be fitted directly to the rear of an Excel Fibre Optic Patch Panels. A generic cable identification label is affixed to each end of the assembly 50 mm from the gland; customer specific labelling schemes can be applied on request.

Excelerator Pre-Terminated Distribution 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 as link from inside a patch panel to inside a patch panel, inside panel to consolidation points, or rack to rack links.

Cable Designs

Excelerator Pre-Terminated Distribution Cables - LC_LC 900 Micron, Fan out 1m.

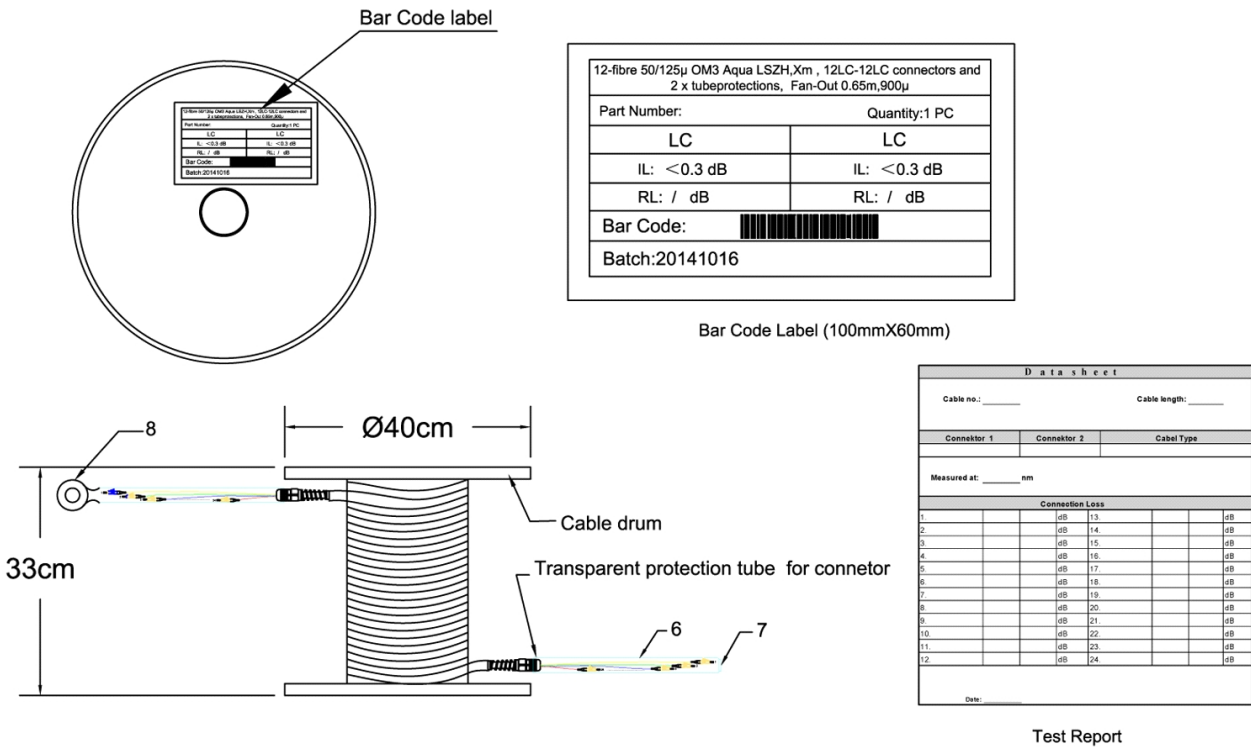
The drawing below shows the construction of a 12 core LC to LC pre-terminated Distribution cable. Construction details and design are consistent across all Excelerator pre-terminated Distribution cables.



Drawing Ref	Description	Qty
1	LC (or connector as specified) Dust Cover	Core Count Specific
2	LC (or connector as specified) 0.9mm connector	Core Count Specific
3	LC (or connector as specified) 0.9mm strain relief boot	Core Count Specific
4	Gland / splitter assembly, Black	2
5	Distribution 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.



Drawing Ref	Description	Qty
6	Transparent protective tube. Diameter core count specific	2
7	Blunt pulling head/protective cap	1
8	Ring style pulling eye	1

Cable Diameter

The following table details the outside diameter of the cable used in each assembly, together with the diameter of the transparent protective tube which should be taken into account if installing or pulling cables into confined spaces.

The cable diameters shown apply to all multimode and single mode cable. Cables with core counts up to 48 cores 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)	Tube Diameter (mm)
8	5.6	27	19
12	6.2	38	25
16	6.8	42	25
24	7.8	61	25
48	17.0	170	45

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-D08-OM3-OYY-OZZ-XXX	Excelsator OM3 8 core distribution cable - Aqua
209-D12-OM3-OYY-OZZ-XXX	Excelsator OM3 12 core distribution cable - Aqua
209-D16-OM3-OYY-OZZ-XXX	Excelsator OM3 16 core distribution cable - Aqua
209-D24-OM3-OYY-OZZ-XXX	Excelsator OM3 24 core distribution cable - Aqua
209-D48-OM3-OYY-OZZ-XXX	Excelsator OM3 48 core distribution cable - Aqua

OM4 Part Number Information

Part No.	Description
209-D08-OM4-OYY-OZZ-XXX	Excelsator OM4 8 core distribution cable - Aqua
209-D12-OM4-OYY-OZZ-XXX	Excelsator OM4 12 core distribution cable - Aqua
209-D16-OM4-OYY-OZZ-XXX	Excelsator OM4 16 core distribution cable - Aqua
209-D24-OM4-OYY-OZZ-XXX	Excelsator OM4 24 core distribution cable - Aqua
209-D48-OM4-OYY-OZZ-XXX	Excelsator OM4 48 core distribution cable - Aqua

OS2 Part Number Information

Part No.	Description
209-D08-OS2-OYY-OZZ-XXX	Excelerator OS2 8 core distribution cable - Yellow
209-D12-OS2-OYY-OZZ-XXX	Excelerator OS2 12 core distribution cable - Yellow
209-D16-OS2-OYY-OZZ-XXX	Excelerator OS2 16 core distribution cable - Yellow
209-D24-OS2-OYY-OZZ-XXX	Excelerator OS2 24 core distribution cable - Yellow
209-D48-OS2-OYY-OZZ-XXX	Excelerator OS2 48 core distribution 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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