Excel Pre-Terminated Cable Assemblies

Tight Buffered & Loose Tube with 900-micron Fan-Outs

- 1 core to 24 cores
- 900 Micron Fanout Construction
- MM & SM options- OM1, OM2, OM3, OM4, OS2
- LC, SC, ST and FC connectivity (PC & APC)
- Tight-Buffered and Loose Tube Options
- Internal/External & Duct Grade options
- LS0H / CPR Compliant cables

Features

- 1 core to 24 cores
- Multimode & Singlemode - OM1,OM2,OM3,OM4,OS2
- Supplied with protective tubes and pulling eye
- Excel 25 Year System Warranty
- 900 Micron Fanout Construction
- LC, SC, ST and FC connectors (PC & APC)
- Excel LS0H / CPR compliant cable
- Alternative core counts and connector options
- Fully Inspected & Tested - Certificate Included

Product Overview

Excel pre terminated cables are constructed from multi core 900-micron, Tight Buffered or 250-micron Loose Tube cable. Many options are available to meet most requirements and include choices of multimode and singlemode, core counts and connector styles.

All cables are fully CPR compliant and come labelled with CPR information/DoP details.

These pre-terminated cables are supplied on plywood drums or in coils - depending on length and are fitted on both ends with a protective tube. The pulling end also has a puling eye attached.

The cables can be terminated on both ends or single-ended. The ‘fan-outs’ are staggered at approx. 50mm intervals and unless specified otherwise, the longest fan out will measure 1 metre from the gland assembly to tip of connector. The fan-outs can however be made to any length up to 2m.

All cable assembly 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.

The cables are fitted with strain relief glands so that they may be fitted directly to the rear of an Excel Fibre Optic Patch Panel or other enclosures such as wall-boxes, consolidation boxes etc. A cable ID label is affixed to each end of the assembly just behind the gland stating the batch number and cable length. Customer specific labelling schemes can be applied on request.

Excel Pre-Terminated cable assemblies 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 links from a panel to a panel, panel to consolidation points, or rack to rack links. See alternative spec. sheet for this type of assembly.

Other pre-terminated fibre cable assemblies are also available in a multitude of configurations with ruggedised fan outs. These are generally used for connection directly to the front of a panel or switch, where the fibres should be ruggedised.

Also available are fibre pre-terminated assemblies on re-deployable cable drums. These are designed to be used in temporary applications, such as broadcast or disaster recovery, where a temporary link may be required. See alternative specification sheet for this type of assembly.

Packaging

The Excel Pre-terminated Fibre Optic cable assemblies are supplied on cable drums or in coils, depending on the length of the cable, with pulling tubes fitted for protection of the breakouts. Both ends of the cable are accessible.
All assemblies are fully tested for insertion loss and a test certificate is supplied with each assembly.
All assemblies include the product label which includes the batch number and the CE/CPR label specifying the CPR class that the cable complies to.

Cable Drum Details

- Drum Diameter (typical) – 450mm
- Drum Height (typical) – 225mm
- Drum Centre Hole Diameter – 55mm

Pulling Tube Details

- Pulling Tube Diameter (typical) 32mm. (25mm option)
- Pulling Eye Inside Diameter – 10mm

Cable/Gland Details

- Cable Diameter – 6mm to 8.5mm (depending on cable type)
- Fibre Breakout length (typical) – 1m max. (Customer defined option)
- Gland Size – M20
- Gland Strain Relief Boot Length – 90mm

Specifications

Fibre Performance	OM2	OM3	OM4	OS2
Maximum cable attenuation @ 850nm	3.5dB/km	3.5dB/km	3.5dB/km	n/a
Maximum cable attenuation @ 1300nm	1.5dB/km	1.5dB/km	1.5dB/km	n/a
Maximum cable attenuation @ 1310nm	n/a	n/a	n/a	0.4dB/km
Maximum cable attenuation @ 1550nm	n/a	n/a	n/a	0.3dB/km
Bandwidth				
Minimum Bandwidth @ 850nm	700	1500	3500	n/a
Overfilled (OFL) Modal Bandwidth @ 1300nm	500	500	500	n/a
Minimum Bandwidth Laser Effective @ 850nm	950	2000	4700	n/a
Complies with specification standard	IEC 60794-1-1	IEC 60794-1-1	IEC 60794-1-1	IEC 60794-1-1
Colour Coding Standard	TIA 598			

Connector Performance	SC	LC
Insertion Loss (dB)	<0.3	<0.3
Return Loss - MM/SM/APC (dB)	-30/-50/-60	-30/-50/-60
Ferrule	2.5mm Zirconia ceramic	1.25mm Zirconia ceramic

Part Numbers

Part No.	Description
209-a2-bbb-9cc-9dd-BK-xxxx	Excel 2 core Pre-terminated Cable Assembly
209-a4-bbb-9cc-9dd-BK-xxxx	Excel 4 core Pre-terminated Cable Assembly
209-a6-bbb-9cc-9dd-BK-xxxx	Excel 6 core Pre-terminated Cable Assembly
209-a8-bbb-9cc-9dd-BK-xxxx	Excel 8 core Pre-terminated Cable Assembly
209-a12-bbb-9cc-9dd-BK-xxxx	Excel 12 core Pre-terminated Cable Assembly
209-a16-bbb-9cc-9dd-BK-xxxx	Excel 16 core Pre-terminated Cable Assembly
209-a24-bbb-9cc-9dd-BK-xxxx	Excel 24 core Pre-terminated Cable Assembly

Key

a = Cable Type (D-Tight Buffered, L-Loose Tube)
bbb = Fibre Type (OM1, OM2, OM3, OM4, OS2)
cc = Connector A (LC, SC, ST, FC, LCA, SCA, FCA)
dd = Connector B (LC, SC, ST, FC, LCA, SCA, FCA)
xxxx = Length in cm (eg: 100m = 10000)

Note – Other options are available. Please contact us for details.