



X 1 core to 24 cores

X 2mm or 3mm Fanout Construction

X SM & MM – OS2, OM1, OM2, OM3, OM4
LC, SC, ST and FC connectivity (PC & APC)

X Re-Deployable, durable steel cable drums

X Tight Buffered and Loose Tube cable options

X Internal/External cables – CPR compliant

Features

- Available from 1 core to 24 cores
- Multimode and Singlemode - OM1, OM2, OM3, OM4, OS2
- Supplied with protective tubes and pulling eye
- 25 Year System Warranty
- 2mm or 3mm Ruggedised Fanout
- Construction LC, SC, ST and FC connectivity (PC & APC)
- LSOH outer sheath as standard
- Alternative core counts, connectivity, and sheath colours on Fully inspected and Tested - Certificate Included

Product Overview

Excel pre-terminated re-deployable cable assemblies with ruggedised fan-outs are constructed from multi-core 900-micron, tight buffered or loose-tube 250-micron cables as required. Many options are available to meet most requirements and include choices of multimode and singlemode fibres, core counts and connector styles.

These pre-terminated cables are supplied on robust steel re-deployable cable reels, which are ideal for transporting and deploying the cables into temporary applications, where they can be quickly and easily wound back onto the reel and used again and again. The reels are high quality, extremely tough and include a clutch to prevent the drum from spinning. The inside end of the cable is fed into the centre of the drum and wound onto a spool on the side to allow access to both ends of the cable.

The cables are usually terminated at both ends. The 'fan out' assembly is staggered at approx. 50mm intervals to fit into the pulling tubes. Unless specified otherwise the longest fan out will measure approximately 1 metre from the gland/manifold assembly to the tip of connector, but the fanouts can be made to any length up to 2m. The fan outs are protected by means of a protection tube to which a ring style pulling eye is fixed.

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 cable glands to offer bend protection as the cable enters the manifold. The standard gland size is M20. A cable identification label is affixed to each end of the assembly, just behind the gland. Customer specific ID's can be applied on request.

Excel Pre-Terminated re-deployable Ruggedised cables are extremely robust, yet compact and flexible in design. This together with the range of cable options, core counts, and connectivity available make them ideal for use as link from a patch panel to a switch, panel to consolidation points, or rack to rack links.

Packaging

The Excel Pre-terminated re-deployable Ruggedised Fibre Optic Cable Assemblies are supplied coiled onto robust steel re-deployable cable reels, with the protective tubes fitted to both ends.

All assemblies are tested on the reels 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 (typical)

- Reel Diameter (typical) – 380mm
- Height (typical) – 450mm (including feet & handle)
- Width (typical) – 250mm

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 Attenuation	OM3	OM4	OS2
Maximum cable attenuation @ 850nm	3.5dB/km	3.5dB/km	n/a
Maximum cable attenuation @ 1300nm	1.5dB/km	1.5dB/km	n/a
Maximum cable attenuation @ 1310nm	n/a	n/a	0.4dB/km
Maximum cable attenuation @ 1550nm	n/a	n/a	0.3dB/km
Bandwidth			
Minimum Bandwidth @ 850nm	1500	3500	n/a
Overfilled (OFL) Modal Bandwidth @ 1300nm	500	500	n/a
Minimum Bandwidth Laser Effective @ 850nm	2000	4700	n/a
Complies with specification standard	IEC 60794-1-1	IEC 60794-1-1	IEC 60794-1-1
Connector Performance Characteristics	SC	LC	
Insertion Loss (dB)	<0.3	<0.3	
Return Loss - MM/SM/APC (dB)	-30/-50/-60	-30/-50/-60	
Ferrule	2.5mm ceramic	1.25mm ceramic	
Connector Design	IEC 61754-4	IEC 61754-2	

Part Number Information

Part No.	Description
209-a2-bbb-ccc-ddd-BK-xxxx-RD	Excel 2-core Pre-terminated Re-deployable Cable Assembly
209-a4-bbb-ccc-ddd-BK-xxxx-RD	Excel 4-core Pre-terminated Re-deployable Cable Assembly
209-a6-bbb-ccc-ddd-BK-xxxx-RD	Excel 6-core Pre-terminated Re-deployable Cable Assembly
209-a8-bbb-ccc-ddd-BK-xxxx-RD	Excel 8-core Pre-terminated Re-deployable Cable Assembly
209-a12-bbb-ccc-ddd-BK-xxxx-RD	Excel 12-core Pre-terminated Re-deployable Cable Assembly
209-a16-bbb-ccc-ddd-BK-xxxx-RD	Excel 16-core Pre-terminated Re-deployable Cable Assembly
209-a24-bbb-ccc-ddd-BK-xxxx-RD	Excel 24-core Pre-terminated Re-deployable Cable Assembly

Key

a = Cable Type (D–Tight Buffered, L–Loose Tube),

bbb = Fibre Type (OM1, OM2, OM3, OM4, OS2)

ccc = Connector A (2LC = 2mm LC, 3SC = 3mm SC, 3ST = 3mm ST, 3FC = 3mm FC etc.)

ddd = Connector B (2LC = 2mm LC, 3SC = 3mm SC, 3ST = 3mm ST, 3FC = 3mm FC etc.)

xxxx = Length in cm (eg: 100m = 10000)