

We're predicting a dry spell



FREEDM™ Dry MPC Cable Features and Benefits

FREEDM™ Dry MPC Cable

...it's soooo dry

CORNING

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Look inside Corning's new FREEDM™ Dry MPC Cable and you'll see there's something familiar, missing: gel. So now you can have inter and intra building cable packed full of Corning innovation, that oozes pure performance – and nothing else.

Corning FREEDM Dry MPC Cable replaces gel with a waterblocking yarn coupled with an enhanced buffer tube design. The results surpass all standards for waterblocking, cosseting the fibre with improved protection to wear and tear, while allowing super fast, accurate and reliable installation and splicing.

Performance is further enhanced by the use of Corning ClearCurve® bend-insensitive fibre. When all of that is stacked up... we're predicting a long, dry spell.

Gel, and the cost of tuna

It's usual for outdoor optical fibre cables to have buffer tubes filled with gel. The gel's purpose is to fill the gaps that could otherwise be penetrated by moisture, and to cushion the small movements made by the optical fibre within the tube. Purely in that context, the gel has done a pretty good job.

But the situation is a bit like canned tuna and vegetable oil; the oil is there to keep the tuna fresh, but the tuna doesn't taste fresh with the oil on.

So making your salad Niçoise becomes more about removing the oil than combining ingredients.

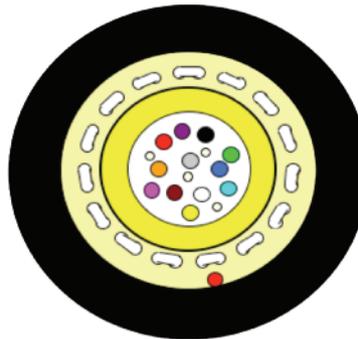
Similarly the gel needs to be cleaned away, before the cable is useful, but it doesn't want to leave. Not only is it not soluble in water – it's pretty non-soluble, full stop.

0

gel in one buffer tube

12

fibres in a single buffer tube



20

minutes cleaning time saved in fan-out process, per buffer tube

30

minutes saved in cleaning fibres in one buffer tube

1hr

saved per clean of cleaver or splicer tool

The nitty gritty

It can take 20 to 30 minutes and 50 applications of a chemically impregnated wipe to clean the 12 fibres in just one buffer tube. During that process, the gel likes to spread itself about; onto hands, clothes, tools and the general environment.

Gel residue on a cleaver means that the tool performs poorly or even fails. Clean, accurate cleaves are essential for a low-loss splice. Likewise, the number one cause of splicing issues is dust and dirt in the splicer. It can take an hour, using chemicals and canned air, to clean each piece of equipment.

Dry MPC Cable needs minimal cleaning, saving about 20 minutes per fan-out (12 fibres). Splicing is made faster and more accurate, resulting in reliable, consistently low-loss terminations.

What's in the tube?

Corning FREEDM™ Dry MPC Cable has two major enhancements, working together to deliver improved performance in all environments:

- The buffer tube has been reinvented as a flexible polypropylene shroud, designed to prevent any kinking either during installation or through normal usage, thereby preventing damage to fibres.
- The gel has been replaced by 'waterblocking yarns' – made from a hi-tech, hydrophilic material that absorbs and holds on to any moisture.

Benefiting from innovation and experience

As a world leader in research and development, Corning thrives on developing solutions to bring technologies to life.

Our unique collaborative culture has enabled us to imagine the possibilities and address complex challenges with breakthrough solutions – that's Corning's brand of innovation.



Shorter time to install, as a combination of reduced cleaning times and faster termination.

Much reduced risk of kinking a buffer tube, both during installation and over the cable's lifetime; the infrastructure is more reliable and total cost of ownership is reduced.

Splicing is made more accurate and reliable, resulting in consistent, low-loss, high performance cable termination.

Rated and approved for indoor/outdoor use; eliminating the need to terminate and re-provision at the building threshold.

Fibres are dust and dirt free from the first second.

Corning FREEDM™ Dry MPC Cable Benefits

Less contamination of the immediate environment, meaning cleaner installation.

No potentially hazardous cleaning chemicals brought on site.

Field proven over five years of indoor and outdoor deployments in North America.

Standards compliant; easily surpasses IEC 60794-1-2-F5 (waterblocking), IEC 61034 and EN 50268 (low smoke) and halogen free, IEC 60754-2 and EN 50267 (non-corrosive), IEC 60332-3C and EN 50266-2-4 (fire retardant).

Fully compatible; available with various fibre types - Multimode and Single-mode.

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