Ribbon fiber technology and slotted-core cables

Quicker to splice, easy handling, high mechanical strength and protection

You are an installer, an incumbent or "citynet" operator of broadband services, perhaps a power utility or a municipality. Because you may have initially underestimated fiber requirements, you now want to add maximum fiber count in a minimum space, without losing precious time on complex splicing operations. You prefer a "dry" solution, rather than a jelly-filled solution to ensure water-tightness. Easy fiber identification, strippability, and fast splicing are very important, in addition to high tensile strength and crush resistance.

Nexans is one of the few cable manufacturers to provide ribbon fiber technology. This fiber technology simply means that a number of fibers, commonly 4, 8 or even 12, are laid in parallel to each other and are joined by a common protective sheath, so as to form a ribbon. The ribbon slotted core cables are provided in designs intented for direct burial into ground, installation in ducts or underwater installation. They are manufactured as fully metalfree designs in Halogen-Free, Fire-Retardant (HFFR) versions as well as traditional polyethylene versions.

This Nexans FTTx solution gives you:

- Installation simplicity: splicing machines can do multiple splices simultaneously
- Easy identification of fibers: because fibers are grouped into units of 4, 8 or 12, and each ribbon is bar coded
- Splicing time: tests prove that 384 ribbon fibers can be spliced 5 times faster than separate loose tube fibers generating great cost and time savings
- Density: fiber count can be nearly doubled in the same duct dimension and in addition follows smaller drums and lower transport weight
- Easier handling: a more comfortable "dry" solution
- Mechanical strength and protection: fiber ribbon protection inside a slotted-core makes for secure blowing and protection against crush, impact, twisting and bending

For further information: www.nexans.com/e-service