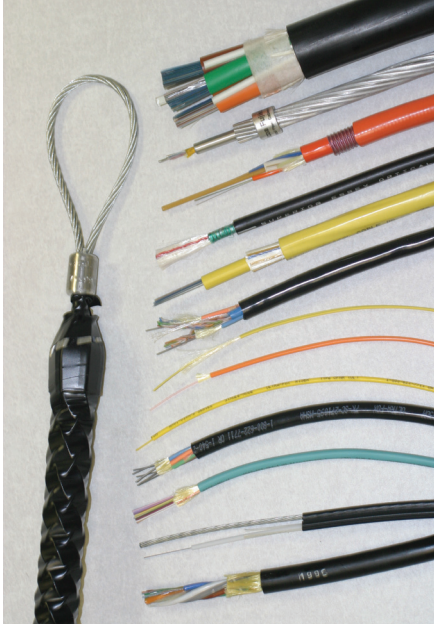


The
LIGHT BRIGADE®

Your Fiber Optic Resource.

Fiber Optic Cable

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The ever-evolving spectrum of optical cables

Fiber optic cables protect the optical fibers that allow worldwide communications to operate efficiently. Since 1975, cable manufacturers have improved upon designs and materials to offer greater flexibility in cable selection and usage.

This DVD was developed for those who work with optical cable, whether it involves their design, installation or preparation. Learn about the many types of optical cables and their applications. Tour a cable plant and see how cable is manufactured from the initial fiber acceptance through the final testing prior to shipping.

Chapters feature cable designs such as central and stranded loose buffered cables for the OSP installers. For premises, tight buffered distribution, breakout and cordage cables are covered. Additional content covers ribbon, armored, composite and indoor/outdoor cable variations.

For utilities, three chapters are based on OPGW and ADSS cables. For technicians, the DVD has three chapters on loose, tight and OPGW cable preparation. Each common cable type is prepared, including end and mid-entry, fan-out kits, Kellems grips and specialty hardware. The specifications chapter reviews the critical details that apply to cable installation and operation.

Chapter Selections

Introduction – 6:17

Learn about the cabling process and the variations in cable structures that have been developed for the physical protection of the internal fiber structures.

Cable Applications – 11:06

Learn about cable structures for aerial, ducted, buried, underground, premise, or industrial environments. Many types of optical cables, designed for standard and unique applications, are reviewed along with installation methods.

Loose Buffered Cables – 7:56

Loose buffered cables are used by service providers in the outside plant for aerial, underground and ducted installations. Learn about cable elements and types, including stranded, central tube, armored, ribbon and FTTx drop cables.

Tight Buffered Cables – 7:34

Tight buffered cable styles, such as distribution, breakout, composite or hybrid, are commonly used in premises applications. Learn new variations including indoor/outdoor and sub-unit distribution cables, as well as new termination and access techniques.

Cable Manufacturing – 14:43

Take a tour through the cabling process from acceptance to final cable testing. Watch processes including color coating and cable sub-structures including armoring, ripcords, jacketing, strength members and markings.

Cable Specifications – 8:05

Anyone designing or installing optical cables must understand proper cable installation and operation including bend radius and tension. This chapter includes physical size issues and environmental and grounding issues.

Loose Buffered Cable Prep. – 20:35

Learn how to prepare armored and unarmored stranded and central tube cable structures. See how to install fan-out kits and attachment hardware. Learn about mid-entries for trunk and feeder applications, including FTTx.

Tight Buffered Cable Prep. – 10:17

Learn how to prepare distribution, breakout cables and cordage, and to perform a mid-entry on sub-unit indoor/outdoor distribution cables for protective, alternate route ring and ITS networks. See the process for installing fan-out kits and attachment hardware.

OPGW Cables – 4:28

Optical power ground wire cables, used by utilities, provide its own unique challenges for technicians and installers. This chapter reviews the types, variations and applications along with the cable's structure and materials.

OPGW Preparation – 7:23

OPGW has unique disciplines, tools, processes and attachment hardware. This chapter takes the viewer step-by-step through an OPGW preparation sequence.

ADSS Cables – 6:31

All dielectric self-supporting cables are the strongest variation of loose buffered cable. This chapter covers the types, applications and specialized hardware for ADSS installations.

Bonus Materials – Quiz in Word format, with both student and instructor versions.