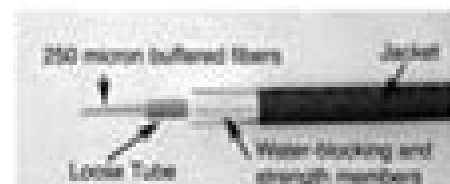


Loose Tube Cable Types

Loose Tube Cable



Loose tube cables are the most widely used cables for outside plant installation because this type of cable offers the best protection for the fibers under high pulling tensions and can be easily protected from moisture with water-blocking gel or tapes. These cables are composed of several fibers together inside a small plastic tube, which are in turn helically wound around a central strength member, surrounded by aramid strength members and jacketed, providing a small, high fiber count cable. This type of cable is ideal for outside plant trunking applications, as it can be made with the loose tubes filled with gel or water absorbent powder to prevent harm to the fibers from water. It can be used in conduits, strung overhead or buried directly into the ground. Some outdoor cables may have double jackets with a metallic armor between them to protect from chewing by rodents or Kevlar for strength to allow pulling by the jackets. Since the fibers have only a thin buffer coating, they must be carefully handled and protected to prevent damage. Loose tube cables with singlemode fibers are generally terminated by splicing pigtails onto the fibers and protecting them in a splice closure. Multimode loose tube cables can be terminated directly by installing a breakout kit, also called a furcation or fan-out kit, which sleeves each fiber for protection.

Ribbon Cable



Ribbon cable is preferred where high fiber counts and small diameter cables are needed. This cable has the most fibers in the smallest cable, since all the fibers are laid out in rows in ribbons, typically of 12 fibers, and the ribbons are laid on top of each other. Not only is this the smallest cable for the most number of fibers, it's usually the lowest cost. Typically 144 fibers in ribbons

only has a cross section of about 1/4 inch or 6 mm and the jacket is only 1/3 mm or 1/2 inch diameter. Some cable designs use a "slotted cone" with up to 6 of these 144 fiber ribbon assemblies for 864 fibers in one cable! Since it's outside plant cable, it's gel-filled for water blocking or dry water-blocked. Another advantage of ribbon cable is Mass Fusion Splicers can join a ribbon (12 fibers) at once, making installation fast and easy. Ribbon pigtails are spliced onto the cable for quick termination. Premises cabling also uses some ribbon cables, often in preterminated cabling systems where 12 fibers are terminated in one MTP connector. These cables are common in LAN backbones and data centers.

Armored Cable



Armored cable is used in direct buried outside plant applications where a rugged cable is needed and/or for rodent resistance. Armored cable withstands crush loads well, for example in rocky soil, often necessary for direct burial applications. Cable installed by direct burial in areas where rodents are a problem usually have metal armoring between two jackets to prevent rodent penetration. Another application for armored cable is in data centers, where cables are installed under the floor and one worries about the fiber cable being crushed. Indoor armored cables may have nonmetallic armor. Metallic armored cable is conductive, so it must be grounded properly. As with other fiber optic components, there are different names or meanings used. "Armor" in some companies' jargon denotes a twisted heavy wire rope type cable surrounding the entire poly cable sheath/jacket. Single or double armor (two opposite ply layers of the steel wire) is typically used underwater near shore and shoals. Inner metallic sheath members of aluminum and/or copper are used for strength and for buried cable locating with a tone set.

Aerial Cables

Aerial cables are for outside installation on poles where consideration must be given to continual tension from the cable weight as well as wind and ice loads. Regular outdoor loose tube cables can be helically twisted to a messenger or another cable (common in CATV.) Some cables have heavier jackets and stronger metal or aramid strength members to make them self supporting (called all-dielectric self-supporting or ADSS cable if the strength members are nonconductive.) Self-supporting cables use special hardware to handle the installed tension on the cables caused by the weight of the cables and

Fiber Optics Outside Plant Engineering Manual

Jerry C. Whitaker



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FIBER OPTIC NETWORKS Outside Plant Construction and Project Management Techniques Patrick Argiro, 2012-04-07

Outside Plant has been the conduit to achievement for many telecom professionals. It has provided the pathway for new technologies like fiber optics. This book will assist in increasing fundamental information about outside plant construction and engineering and can be utilized by the beginning OSP professional and as a review for someone who is more experienced out in the field. After you have read this book, you will be better equipped to understand outside plant. The book is designed for you to directly go to any topic you are interested in, and the format allows you to read this book in short time segments whenever you find it convenient. Here is a listing of the book's 15 chapters: 1 Values and Ethics for the OSP Telecom Professional, 2 Permits in a Nutshell, 3 Sub Aqueous Plant Made Simple, 4 Basics of Aerial Plant, 5 General Engineering Procedures and Various Telecommunications Engineers, 6 The Basics of Trenching, 7 OSP Services and Solutions, 8 The Basics of HDD Horizontal Directional Drilling, 9 Pull Box Procedures and Guidelines Made Simple, 10 Handhole and Manhole Maintenance Hole Installations, 11 Bridge and Fixed Structure Attachments, 12 Electrical Protection, 13 Fiber Optics Splicing, Testing and Documentation, 14 Materials Specifications, 15 Requirements of The Railroad. Challenging careers in telecommunications and OSP require training and know-how, and this book is a great way for you to learn about both. It discusses technological terms, permits, pull box and trenching procedures, as well as manhole installations, directional drilling, and sub aqueous plant, and is a great training tool for employees as it explains employee leadership and the importance of customer service, as well as chapters on bridge fixed structure attachments, railroad requirements, electrical protection, and new technologies being created with fiber optics. The book also discusses material specifications, OSP services and solutions, engineering procedures, and fiber optic splicing. Short comprehensive quizzes at the end of each chapter are great ways to check your knowledge.

[Fiber Optics Technician's Manual](#) Jim Hayes, 2005. This newly updated edition reflects recent changes in fiber optic technology, marketing, and applications, including wider usage of Fiber To The Home (FTTH) applications and LANs (Local Area Networks). A practical guide for designers, installers, and troubleshooters of fiber optic cable plants and networks, this book provides a comprehensive overview of all aspects of fiber optics as used in communications systems, including telephone, CATV, and computers. Beginning with a brief history of the development of fiber optics, the third edition progresses from the basics of the technology and its components to installation and testing.

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