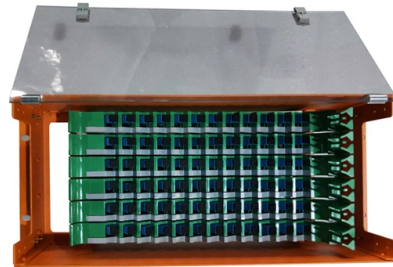


Is the 4-core wire a power cable or an optical fiber cable



Article Overview

A 4-core wire can refer to either a power cable or an optical fiber cable, depending on its construction and intended use.

4-Core Power Cable

A 4-core power cable is designed for electrical power transmission, typically in three-phase systems with a neutral wire. It contains four separate conductors, usually made of copper or aluminum, each individually insulated and enclosed within a protective outer sheath. The three phase conductors carry alternating current with a 120° phase shift, while the neutral conductor provides a return path for current. These cables are widely used in industrial, commercial, and residential power distribution, supplying electricity to motors, pumps, compressors, and heavy equipment. Insulation materials commonly include PVC, XLPE, or rubber, and some cables may have steel wire or tape armoring for mechanical protection in outdoor or underground installations.

4-Core Optical Fiber Cable

A 4-core optical fiber cable contains four individual optical fibers within a single protective jacket, designed for data transmission via light signals. Each fiber can transmit data independently, supporting configurations such as two duplex links or one duplex link with two backup fibers for redundancy. Optical fibers are typically made of glass or plastic, and the cable may include strength members like steel wire...

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