

PENLINK

Customized Cables for Cable Reels

For any application to work for a long time the cables need to be strong and reliable. Our cables are designed with heavy duty armor to suit your applications requirements. We design hybrid cables containing a mix of power, signals, data and optical conductors. The cable together with our slip ring, all integrated in one single drum makes for a smart solution for any application that need reliable transmission during rotation.

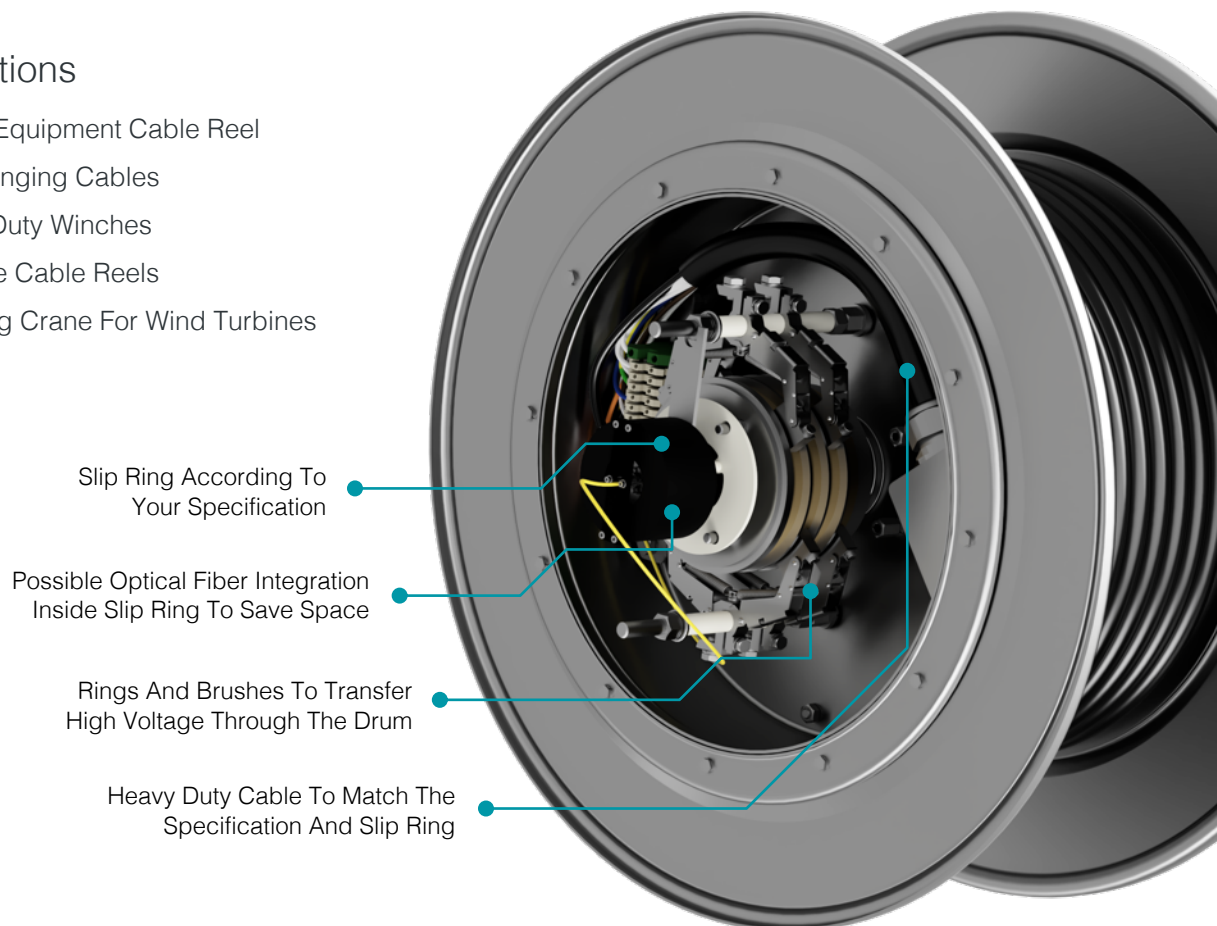
Hybrid Solution

Penlink offers a complete solution for reel-based applications. Using our cables together with our drums and slip ring makes for a versatile, compact and reliable solution for many different applications.

Due to the nature of the slip ring, we have the possibilities to also integrate the product together with either a fiber optical rotary joint or a smaller slip ring for fiber and, more data and power. Together with a fiber optical joint the solutions becomes even more powerful when you need to transfer signals over 80 meters or more. With the fiber you also have the possibilities to transfer data through one cable on different wavelength without disturbance. This hybrid solution becomes even more powerful when we integrate the data, power and fiber transfer inside our heavy-duty cable, designed to handle harsh environments, such as subsea operations.

Applications

- + Mobile Equipment Cable Reel
- + Free Hanging Cables
- + Heavy Duty Winches
- + Offshore Cable Reels
- + Climbing Crane For Wind Turbines



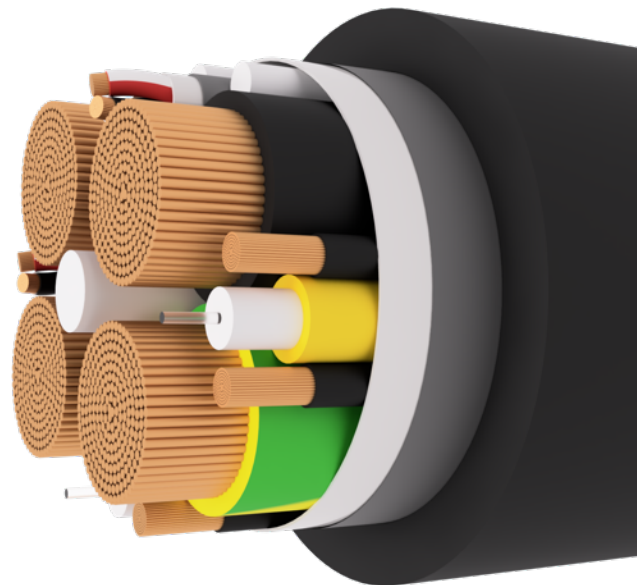
Cables built with double protective layer and braided steel shield – nearly impossible to break or damage.

We have several different cables with heavy duty protection and in many different configurations and sizes, depending on what you need to transfer. Our versatile hybrid cable (data/power) has a broad range of uses as a connector cable for modern computer-controlled equipment. The cable is also a convenient solution for applications in the subsea sector requiring reliable connection, and power source.

We have great modification possibilities of what the cable can transfer, how much breaking strength, and bending radius it needs for the application. Are you interested in a solution but don't know where to start, contact our sales team for consultation.

Possible Modifications

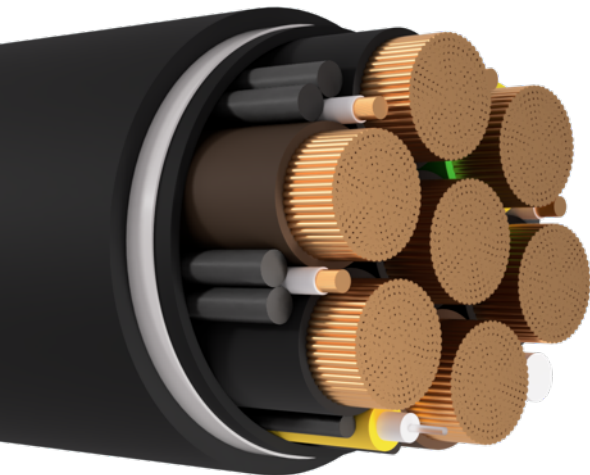
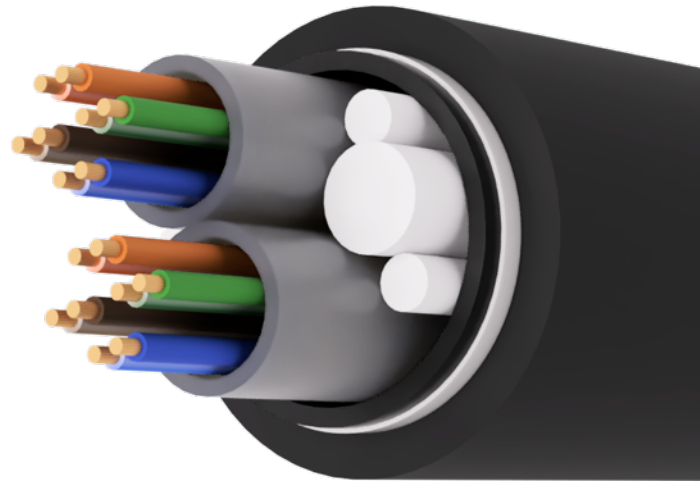
- + Transmission (Ethernet, Profinet, Fiber Optics, CANBus and much more).
- + Voltage – Tell us what voltage you need, and our cables will be modified with the right conductors.
- + Bending Radius
- + Breaking Strength
- + Temperature Range
- + Length and outer Dimensions



DOUBLE ETHERNET

Heavy Duty Cable with CAT6

This cable includes: CAT6E Cables, Dummy Filler Cores, Lapping Helical Tape, Inner Sheath of PUR, Braiding of Aramid Between Layers of PUR, and Outer Protection of Sheath of PUR.



VECTRAN STRENGTHENING CABLE

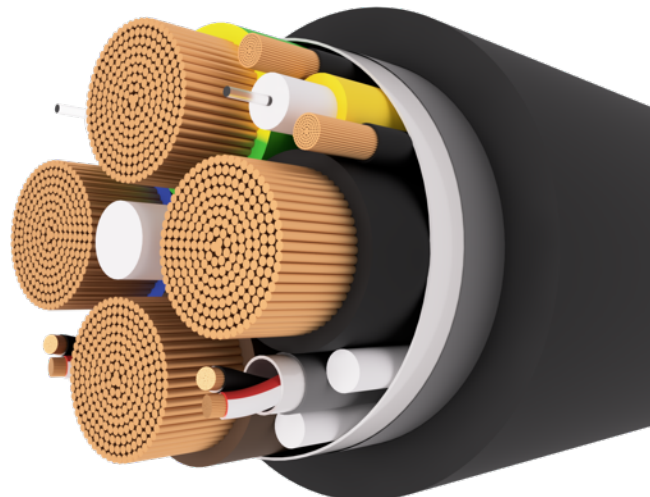
Extra Strong Cable with Optical Fiber

Some features of this large cable are: XLPE Insulated Copper Conductors, Strengthening member of Vectran, Dummy Filler Cores, Fiber Optical Cable, Inner Sheath of TPU, and Nylon Braid for ANTI-twisting properties.

EXTRA PROTECTIVE LAYERS

Flexible Cable with Fiber Optics

Some features including in this cable: Tinned Copper Conductors, PP Insulation, Dummy Filling, Twisted Cables, Braiding of Tinned Copper with Lapping Helical Tape, Fiber Optical Cables, and Protective outer FR TPU.



Customer Case

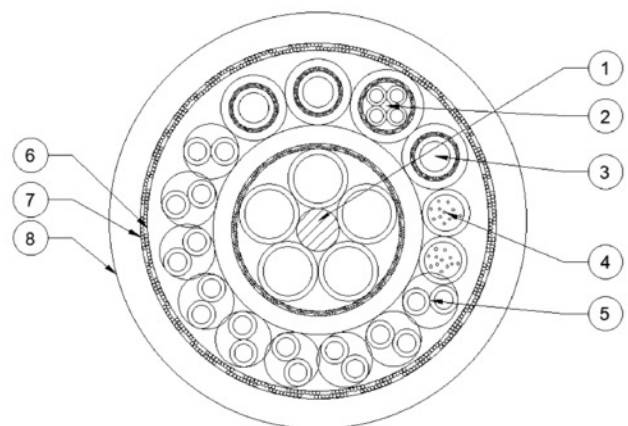
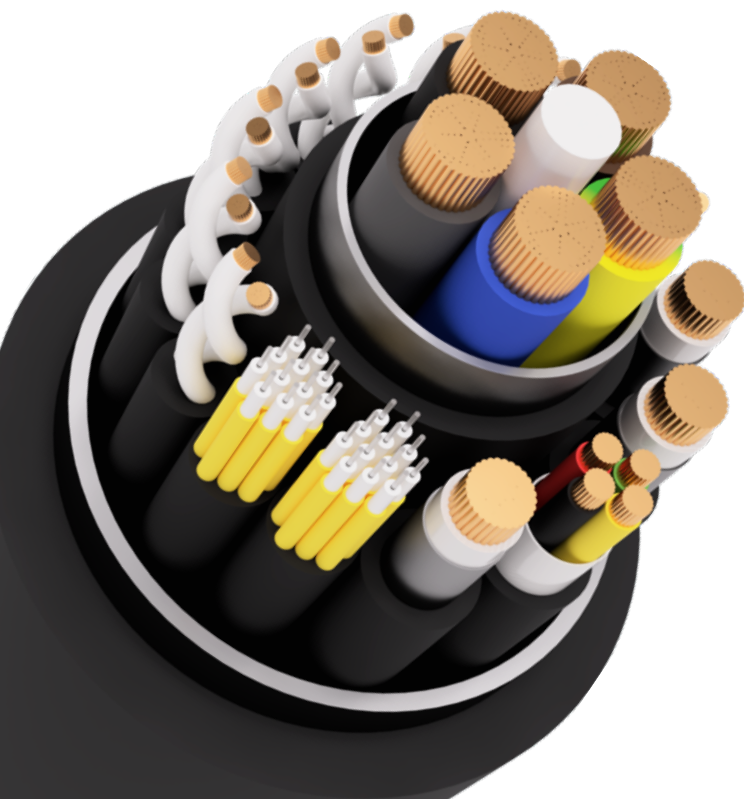
Horizontal Moving Platforms

We have designed a motorized cable reel with an electro-optical slip ring that handles harsh environments to help move a platform horizontally like an elevator that offers people a unique place to dine and mingle.

The initial setup required 6-8 different cable reels with different data and signal transmission to manage all the requirements to make the platform work.

But we could deliver a smarter and more cost-effective solution that consisted of a single motorized cable reel, with an electro-optical slip ring and a hybrid cable that had all the requirements integrated into one.

The components we delivered were well suited for the harsh marine environment and had extended lifetime. With our knowledge and experience with slip rings, cable reels and hybrid cables we could together with our supplier deliver a full system. Today you can see the platform in use on the end customer's cruise vessel.



Get in touch with us today to start your next project!

WWW.PENLINK.SE



Engineering & Product design



Inspection & Quality management



Simulation & Design verification



Assembly & Testing



Advanced Manufacturing



Value-Added Products & Services

We supply only the best solution for each and every industry, get in touch with us to learn more about your possibilities when working with Penlink.

Email: info@penlink.se

Phone: +46 (0) 8 401 10 10

Headquarters: Penlink AB, Vretensborgsvägen 28,
SE-126 30 Hägersten, Sweden