

0.6-46kV SubC

Custom Voltage Cables



Description

Three conductor cable with stranded copper conductors, each with Strandseal[®] strand blocking compound, triple extruded insulation system consisting of a thermosetting semiconducting conductor shield, high dielectric strength specially-formulated ethylene propylene rubber (EPROTENAX[®]) insulation, thermosetting semiconducting bonded insulation shield, helically applied tinned copper tape shield, cabled with polypropylene fillers and tinned copper grounding conductors, overall binder tape, a polypropylene bedding, galvanized steel armor wires, a tar coating and polypropylene serving.

Options

Because every installation is unique, Prysmian's submarine cable designs are customized to meet specific mechanical and electrical requirements. Prysmian's highly qualified and experienced engineers in North America, Great Britain, and Italy work together to design the best, most suitable cable for the application. Prysmian Jacobsen is available for turn-key installations when requested.

For a submarine cable quote, please complete and return the attached questionnaire to Prysmian Power Cables and Systems Customer Service.

Design Parameters

CONDUCTOR: Class B Compressed concentric strand soft drawn bare or coated annealed copper per ASTM, with Prysmian Strandseal[®] strand blocking compound to prevent longitudinal water migration through the conductor.

CONDUCTOR SHIELD: Extruded thermosetting semiconducting shield which is free stripping from the conductor and bonded to the insulation.

INSULATION: High dielectric, specially-formulated submarine-grade EPROTENAX[®] (EPR) insulation, exhibiting an optimum balance of mechanical and electrical properties, insuring resistance to treeing.

INSULATION SHIELD: Extruded thermosetting semiconducting shield that is bonded to the insulation.

METALLIC SHIELD: Helically applied non-magnetic tinned copper tape over the insulation shield with a minimum 20% overlap.

ASSEMBLY: Phase identified shielded conductors cabled with non-hygroscopic polypropylene fillers and tinned stranded grounding conductors (as specified) forming a firm and cylindrical cable core. A binder tape is applied to maintain core symmetry and mechanical stability.

BEDDING: Polypropylene yarn is applied over the cable core to provide a bedding for the armor wires.

ARMOR: Galvanized steel armor wires are helically applied over the bedding for complete core coverage, providing a high level of mechanical toughness. One or two layers may be applied.

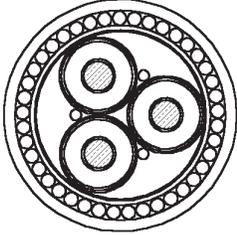
SERVING: A layer of tar and polypropylene yarn is applied as a serving over the armor wires. A polyethylene jacket over individual armor wires may be substituted for the tar and polypropylene serving.

Prysmian Group

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Please complete the following questionnaire. To ensure the best design for the application, we ask that you answer all questions. Additional information may be required.

CABLE

Number of conductors in a single cable _____
 Conductor size, compression _____
 Insulation and thickness _____
 Metallic shield _____
 Jacket type _____
 Other _____

ENVIRONMENTAL CONCERNS

Salt or fresh water? _____
 Will cable be buried or rest on bottom surface? _____
 Stagnant or moving water? _____
 • If moving water, is movement random (tidal) or unidirectional (river flow)? _____
 • If moving water, what is velocity of water? _____
 Maximum depth cable will see? _____
 Describe bottom surface. (sand, smooth or jagged rocks, etc.) _____
 Is there any boat traffic (anchors)? If so, how large? _____
 Describe location of installation. _____

What conditions, if any, do the cables experience in transition from submerged to land installation? _____

Is this a Platform-to-Platform application (drilling rig)? _____
 • If so, would J-tubes be used? _____
 • If so, is the platform floating or rigid (firmly anchored to the bottom)? _____
 • If the platform is floating, is it anchored? _____

SYSTEM

This information is required if Prysmian is asked to recommend a conductor size or shield.

System voltage _____
 Single or Three-Phase Operation _____
 Required ampacity _____
 Required voltage drop (if applicable) _____
 Fault current requirements (duration and ampacity) _____

OTHER

Total required length: _____
 Required shipping lengths: _____

Is this to be a Turn-Key project, i.e. Is Prysmian to design AND install cable? _____

CONTACT INFORMATION (if additional details are required)

Company Name _____
 Name _____
 Office Telephone # () _____
 Cell Phone () _____

PRODUCT NOTES:

Return to Prysmian Power Cables and Systems Customer Service.