

ALLNAMES:(NKT Cables Group A/S)

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1. [WO/2016/070880](#) GROUNDING CONDUCTOR, ELECTRICAL POWER SYSTEM AND USE OF GROUNDING CONDUCTOR WO - 12.05.2016Int.Class [H01B 1/02](#) Appl.No PCT/DK2015/050308 Applicant NKT CABLES GROUP A/S Inventor EFRAIMSSON, Lars

The invention relates to a grounding conductor and an electrical system comprising such a grounding conductor [100] comprising a plurality of conductive aluminium strands [120] where each such strand is provided with at least one sheath [140] of an electrically conductive polymer material having a volume resistivity [ρ] below 100 Ω·cm. Elected for publication.

2. [WO/2017/178024](#) SELF-SUPPORTING ELECTRIC POWER CABLE AND BUOY ARRANGEMENT WO - 19.10.2017Int.Class [H01B 7/18](#) Appl.No PCT/DK2017/050095 Applicant NKT CABLES GROUP A/S Inventor HAGMAN, Lars Ingvar

Herein a self-supporting electric power cable [2] is disclosed. The electric power cable comprises an outer jacket portion [6] and a core portion [8]. The core portion [8] comprises at least one insulated conductor [10] and at least one supporting cord [12]. The at least one insulated conductor [10] comprises a number of individual wires [14], and the at least one supporting cord [12] comprises synthetic fibres [16]. The number of individual wires [14], individually or arranged in bundles [18], are arranged in a first lay direction. The at least one insulated conductor [10] and the at least one supporting cord [12] are arranged in a second lay direction. The at least one supporting cord [12] is arranged as a separate unit in a cross sectional sector of the self-supporting electric power cable [2]. Thus flexible and durable power cable for sea use is provided. Also an offshore arrangement is disclosed herein.

3. [WO/2014/081361](#) SELF-SUPPORTING CABLE WO - 30.05.2014Int.Class [H01B 7/18](#) Appl.No PCT/SE2012/051297 Applicant NKT CABLES GROUP A/S Inventor EFRAIMSSON, Lars

A self-supporting cable [2] comprising an outer portion [4] and an inner portion [6] is provided. The inner portion [6] comprises at least one insulated conductor [8] and the outer portion [4] comprises a first inner surface [10] and an external surface [12]. The external surface [12] is arranged to engage with a suspension arrangement [14]. The inner portion [6] comprises a first outer surface [16], the first outer surface [16] abutting against the first inner surface [10]. The outer portion [4] comprises an outer layer [18] and a metal tape [20] adhered to the outer layer [18]. The outer layer [18] comprises the external surface [12], and the metal tape [20] comprises the first inner surface [10].

4. [WO/2014/080019](#) SELF-SUPPORTING CABLE AND COMBINATION COMPRISING A SUSPENSION ARRANGEMENT AND SUCH SELF-SUPPORTING CABLE WO - 30.05.2014Int.Class [H01B 7/18](#) Appl.No PCT/EP2013/074646 Applicant NKT CABLES GROUP A/S Inventor EFRAIMSSON, Lars

A self-supporting cable [2] comprising an outer portion [4] and an inner portion [6] is provided, as well as a combination of a self-supporting cable [2] and a suspension arrangement [50]. The inner portion [6] comprises at least one insulated conductor [8] and the outer portion [4] comprises a first inner surface [10] and an external surface [12]. The external surface [12] is arranged to engage with a suspension arrangement [14]. The inner portion [6] comprises a first outer surface [16], the first outer surface [16] abutting against the first inner surface [10]. The outer portion [4] comprises an outer layer [18] and a metal tape [20] adhered to the outer layer [18]. The outer layer [18] comprises the external surface [12], and the metal tape [20] comprises the first inner surface [10]. The first inner surface being of metal and adapted for, during local load, frictional engagement with the material of the first outer surface increases the effectiveness of a functional grip between first outer surface and first inner surface. Thus, an increased friction, in fact a frictional engagement may be achieved, when a radially inwardly directed force, e.g. from an externally provided suspension arrangement, is applied on the self-supporting cable.

5. [20190074107](#) LOW VOLTAGE ELECTRIC POWER CABLE US - 07.03.2019Int.Class [H01B 7/00](#) Appl.No 16115116 Applicant NKT Cables Group A/S Inventor Anders Jonas Gatu

A low voltage electric power cable includes at least two insulated conductors arranged together in a bundle, at least one foil extending around the bundle, and an outer sheath extending around the at least one foil. A recess is formed between two insulated conductors. The low voltage electric power cable includes an elongated member, the elongated member being arranged between the at least one foil and the outer sheath, and extending adjacent to the at least one foil along the recess. The elongated member is arranged with a clearance fit underneath the outer sheath.

6. [20190172609](#) SELF-SUPPORTING ELECTRIC POWER CABLE AND BUOY ARRANGEMENT US - 06.06.2019Int.Class [H01B 7/18](#) Appl.No 16093014 Applicant NKT Cables Group A/S Inventor Lars Ingvar Hagman

A self-supporting electric power cable is disclosed. The electric power cable includes an outer jacket portion and a core portion. The core portion includes at least one insulated conductor and at least one supporting cord. The at least one insulated conductor includes a number of individual wires, and the at least one supporting cord includes synthetic fibers. The number of individual wires, individually or arranged in bundles, are arranged in a first lay direction. The at least one insulated conductor and the at least one supporting cord are arranged in a second lay direction. The at least one supporting cord is arranged as a separate unit in a cross sectional sector of the self-supporting electric power cable. Thus flexible and durable power cable for sea use is provided. Also an offshore arrangement is disclosed herein.

7. **2635875** ET INTEGRITETSOVERVÅGNINGSSYSTEM OG EN FREMGANGSMÅDE TIL OVERVÅGNING AF INTEGRITET AF EN STATIONÆR STRUKTUR DK - 08.05.2017

**Int.Class** G01H 9/00 **Appl.No** 11837602 **Applicant** NKT Cables Group A/S **Inventor** HANSEN, Henrik Roland

The invention concerns an integrity monitoring system for monitoring integrity of at least a part of a stationary structure. The system comprises a vibration sensor for sensing vibration as a function of time, a computer, transmitting means for transmitting vibration data from the vibration sensor to the computer, means for acquiring position as a function of time data of a movable object, such as a vessel, a vehicle or a digging tool, where the movable object comprises a transmitter, and transmitting the position as a function of time data to the computer when the movable object is within a selected distance to a monitoring site. The monitoring site comprises the part of the stationary structure to be monitored and the vibration sensor is arranged to sense vibrations within the monitoring site. The computer comprises hardware and software for comparing the vibration data with the position as a function of time data.

8. **PA 2010 01005** AN INTEGRITY MONITORING SYSTEM AND A METHOD OF MONITORING INTEGRITY OF A STATIONARY STRUCTURE DK - 16.04.2012

**Int.Class** G01C 21/00 **Appl.No** PA 2010 01005 **Applicant** NKT Cables Group A/S **Inventor** Hansen, Henrik Roland

The invention concerns an integrity monitoring system for monitoring integrity of at least a part of a stationary structure. The system comprises a vibration sensor for sensing vibration as a function of time, a computer, transmitting means for transmitting vibration data from the vibration sensor to the computer, means for acquiring position as a function of time data of a movable object, such as a vessel, a vehicle or a digging tool, where the movable object comprises a transmitter, and transmitting the position as a function of time data to the computer when the movable object is within a selected distance to a monitoring site. The monitoring site comprises the part of the stationary structure to be monitored and the vibration sensor is arranged to sense vibrations within the monitoring site. The computer comprises hardware and software for comparing the vibration data with the position as a function of time data.

9. **357/CHENP/2013** SELF SUPPORTING CABLE IN - 20.05.2016

**Int.Class** H01B 7/18 **Appl.No** 357/CHENP/2013 **Applicant** NKT Cables Group A/S **Inventor** JOHNSEN Ulf Fridtjof

The current invention relates to self supporting cables that often are aerial mounted between cable fixing points (800) and where the conductors in the cables act as the bearing elements. In this type of cables slippage between the surfaces of different layers in the cable is undesirable. On the other hand it must be possible to easily bend the cable even for larger dimensions. Both these requirements are difficult to meet with the solutions from prior art. The present invention overcomes this by introducing an intermediate layer (130) in the cable (100) located between and adhered to the surfaces (112 121) of the layers and having a frictional inner structure allowing the two surfaces (112 121) to slip relatively each other in longitudinal direction enough so that the cable (100) can be bent but prevents the two surfaces (112 121) from slipping in response to an inwardly directed radial pressure force (F) at the cable fixing points (800).

10. **572460** A CABLE SUSPENSION DEVICE NZ - 29.10.2010

**Int.Class** H02G 7/04 **Appl.No** 572460 **Applicant** NKT Cables Group A/S **Inventor** EFRAIMSSON, Lars

Patent 572460 The present disclosure relates to problems how to keep cable arrangement functional, or at least make the damage as little as possible, after being exposed to different types of mechanical overloads . The problems are solved by methods and arrangements in which the securing means and the contact material of the securing means are arranged so that the cable can slide through the securing means when it is exposed to mechanical overloads .