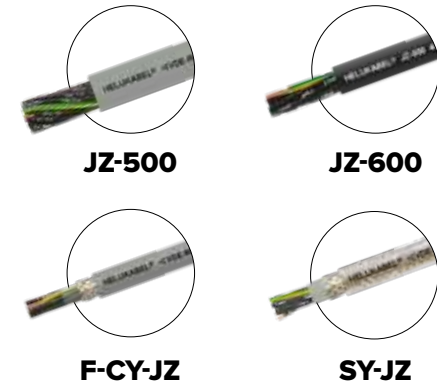


## Control Cables

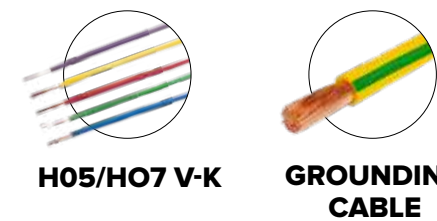
A multi conductor wires used to measure, regulate signal transmission, and operational functions of a particular equipment or process automation.



- Flexible number coded
- Extensively oil and chemical resistant with same size GN-YE conductor
- Class 5 fine strands pure Cu-conductor
- Special PVC inner insulation to withstand temperature range of -40C° to +80C°
- Continuous underlined coding for easy identification
- Small bending radius required
- Flame retardant and self-extinguishing
- With indoor, outdoor or even EMC preferred options
- Applicable for cold storage facilities
- Can also use be for small power applications

## Hook up

Single core insulated cables used in the internal wiring of electronic and electrical equipment. Specific applications include motors, transformers, switchboard, panels, rectifier and electronic circuits.



- Class 5 bare Cu-conductor (IEC 60228)
- Very Flexible; minimal bending radius
- Available in different electrical primary color
- Special T11 PVC insulation
- Flame retardant per IEC 60332-1
- ≈10 MOhm x km insulation resistance
- Nominal voltage up to 1000V
- 750V direct current against earth
- Harmonized CE approved product conformed with EC low voltage directive 2006/95/EC
- 100mtr/box available for size ≤10mm<sup>2</sup>
- High ambient temperature compare to other local type
- GN-YE grounding conductor is also available



## Data/Communication Cables



- Bare 99.9% Cu-Conductor in PE and PVC Insulation Instrumentation Cable
- Aluminum Shielded Twisted Pair protection against outer electrostatic interference
- Low level of attenuation and low mutual capacitance
- Intrinsically safe blue outer sheath is also available (indent)
- 2 conductor with Aluminum polyester foil and tinned Cu braid shield BUS Cable
- Designed for Profibus industrial network acc. to DIN 19245 T3 and EN50170
- Applicable for field sensors and and control system for factory automation.
- Violet PVC outer sheath (Black for UV outdoor application)
- Category 5e and Category 6 Local Area Network Cable
- Unshielded twisted 4 pair copper conductor in HDPE/PVC insulation
- Perfect for Gigabit Ethernet, Fast Ethernet, Ethernet, ATM155, FDDI, Token Ring 4/16 Mbit/s, or ISDN
- Design and manufacture in conformance to latest DIN, CENELEC, EN standards

## Heat Resistant



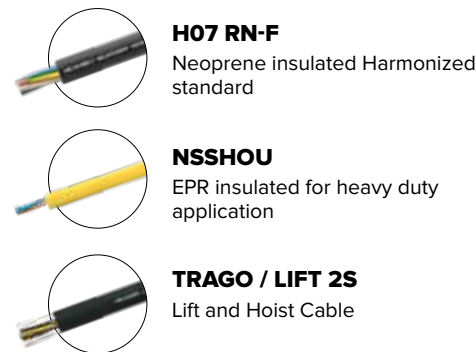
- Fine strands Tinned-Copper conductor with Silicone insulation
- Temperature Range: -60°C to +180°C
- With glass-fibre braiding for rigidity on its primary Silicone insulation
- High flash point and Ozone resistant
- Replacement offer for asbestos wire
- Halogen free double silicone insulated multicore cable
- Resistant to chemical, oxidation substance and outdoor weathering condition
- Can withstand extreme temperature changes
- Thermocouple wire made of two dissimilar metal Chromel-Alumel
- Connecting wire for temperature sensing equipment

## Other Cables



- Flexible low voltage XLPE cable
- Better temperature range than building wire
- Higher nominal voltage rating
- Applicable for both AC and DC
- Resistant to oil and chemical. UV stable
- Ideal for outdoor mobile and portable devices
- Best for plant installation, machine tooling and conveyor belts
- For dry, wet, moist rooms and even direct burial installation
- Flexible Single Solar/PV cables
- Tinned Copper in double cross-linked compound insulation
- Complies with short-circuit class II protection
- Earth fault proof in accordance with HD 60364-5-52
- Up to +120°C temperature rating
- Outdoor weathering condition ready. UV and Ozone resistant
- Special outer sheath compound offers high abrasion resistance
- With third party test approval EN 50618 TÜV Rheinland
- Special motor supply cable for frequency converters (VFD)
- Class 5 Cu-conductor for flexibility and ease of installation
- Double screen with aluminum foil and tinned copper wire braidings
- In 4-Core version or 3 Core + 3G design assembly
- Low coupling resistance for high EMC
- UV resistant and flame retardant
- Has the ability to withstand voltage spikes (PE or XLPE insulation)
- Higher temperature resistant than ordinary building wire or royal cord

## Rubber Sheathed Cables



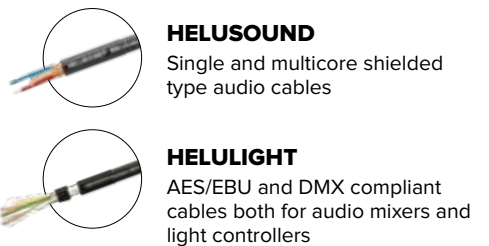
- **H07 RN-F**  
Neoprene insulated Harmonized standard
- **NSSHOU**  
EPR insulated for heavy duty application
- **TRAGO / LIFT 2S**  
Lift and Hoist Cable

## Hygienic Cables



- **NANOFLEX®**  
with antimicrobial properties applicable in food and beverage industry
- **AQUATIC-750**  
3rd party approved submersible cable for drinking and utility water

## Media Technology



- **HELUSOUND**  
Single and multicore shielded type audio cables
- **HELULIGHT**  
AES/EBU and DMX compliant cables both for audio mixers and light controllers





## Low Voltage Power Cables

A general purpose IEC standard multicore power distribution cable in wet or dry locations, installed in air, conduit, duct, trench, cable tray or direct burial in ground.

- Class 2 concentric or compact stranded plain annealed copper conductor as per IEC 60228
- Natural with colored strips Cross-Linked Polyethylene (XLPE) compound insulation
- Black Polyvinyl Chloride (PVC) in accordance with ST2 of IEC 60502-1
- Flame Retardant as per IEC 60332 standard
- Galvanized steel wire options for direct burial application
- With copper tape shield option as shielded type
- Fillers are non-hygroscopic type (if necessary)
- Temperature Rated for 90°C
- Nominal voltage rating of 0.6/1 (1.2) kV
- Inherently UV stabilized with its black outersheath material



Unarmoured  
**CU/XLPE/FR-PVC**



Tape Screened  
**CU/XLPE/CTS/FR-PVC**

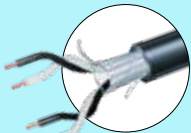


Armoured  
**CU/XLPE/SWA/FR-PVC**

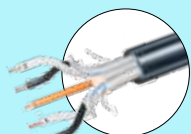
## Instrumentation Cables

These are single or multi-pair/triple cables designed to carry 'clean' signals within industrial environments where there is high level of electromagnetic interference.

- Made in accordance with BS EN 50288-7 multi-element cables suitable for connecting instruments and control systems for analogue or digital signal transmission
- Class 2 plain annealed circular stranded copper conductor
- Twisted pair or triad to ensure induced voltage are equal
- Available in Aluminum shield either overall or with individual pair shield type for an interference free system inside and out.
- With tinned copper drain wire allow easy connection to earth
- For mechanical protection or direct burial application armoured type is an option
- Suited best in hazardous location specially with non-hygroscopic filler



Overall Shield  
**CU/PVC/OS/FR-PVC**



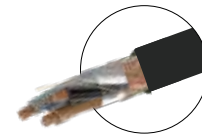
Individually and Overall Shield  
**CU/PVC/IS/OS/FR-PVC**



Armoured  
**CU/PVC/OS/SWA/FR-PVC**

## HELKAMA FINLAND

### Marine Cables



**LKSM-HF**



**H-FLEX PWR PUR**

- A flexible and lightweight Marine Cable for ship building application
- No corrosive acids, toxic fumes and black smoke release upon burning
- Flame retardant and self-extinguishing insulation
- Third party approved type with certificate from different classification society like ABS, DNV, RINA and others

- Flexible PUR insulated ship to shore power cables



### Medium Voltage



Medium Voltage Power Cable  
**CU TAPE SHIELD**

- XPPE/PVC shielded type medium voltage power cable
- 5kV, 15kV and 35kV voltage rating with 133% I.L.
- Insulation are triple extruded, very clean, high molecular, tree resistant XLPE



### Fire Rated Cables



Fire Rated Cable  
**CU/MICA TAPE/XLPE/LSHF**

- Fire resistant, flame retardant and Halogen free insulated cable
- Cables tested in accordance with BS 6387 category C,W, and Z
- As well as IEC 60331, IEC 60332 and IEC 61034



# CABLE SOLUTIONS

Control Cable • Power Cable • Hook Up Wires • Marine Cable  
VFD Motor Cable • Fire Rated Cable • Instrumentation Cable



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