Engineers and Management Consultants
Your Engineering Solutions Partner

NO. 2, OLD NO. Y 145, 12TH MAIN ROAD
4TH DIVISION, VYALIKAVAL, BANGALORE - 560 003
Phone : 9343864887
E-mail : srs@nsengineers.in
Website : www.nsengineers.in

CATALOGUE DETAILS CABLE DIVISION

"CE" MARKED POWER & CONTROL CABLES SOURCED FROM EUROPEAN COMPANIES

TYPE YSLY – JZ CONCAB GERMANY MAKE "CE" MARKED FLEXIBLE, OIL RESISTANCE. HAR MULTICORE POWER AND CONTROL CABLES MANUFACTURED AS PER EUROPEAN STANDARS, SUITABLE FOR LV APPLICATION UP TO 1000V.

Cable Make Up:

Fine wire plain Stranded copper conductors as per VDE 0295, PVC cores number marked, outer sheath of FRLS PVC compound.

TECHNICAL PARAMETER :

- Rated Voltage : 600/1000V
- Test Voltage : 2000V
- Bending Radius : Flexing 15 x cable OD
  Static 5 x cable OD
- Temperature Range : -30 Degree C to 70 degree C
- Core Identification : Number coded or Colour coded
- Colour of Outer Sheath : Grey RAL 7001

APPLICATION :

- Machine tool manufacturers
- SPM manufacturers
- Textile & Cement Machinery manufacturers
- Paper, Pulp Industry
- Printing & Packaging Machinery manufacturers
- Painting , Plating and Powder coating machinery manufacturers
- Power stations
- Heating and Air conditioning
- Refrigeration
- Office / Factory Automation Industries
- Panel Builders
- Projects
- Automotive industries
- Food processing industries

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RANGE:

Available in shielded and unshielded from 2 core to 61 core and 0.5 Sq.mm to 16 Sq.mm. in case of multi cores and up to 185 sq.mm in case of Single core cables. Steel wire braided Cables are also available on request.

Control, Power and signal cables are also available in Flexible Drag Chain versions on request.

2. FLAT CABLES:

Flat cables are suitable for interior and out door installation in dry condition. Also suitable for the power supply to elevators and overhead travelling cranes for intermittent or continuous service including festooning applications.

TECHNICAL PARAMETERS: (picture from Lapp cat/CD pg160 of 2000)

- Insulation: PVC
- Rated voltage: 450/750 V
- Test voltage: 2500 V
- Max Working temperature: 70 Deg C
- Max short circuit temperature: 160 Deg C
- Bending Radius: 4 times the outer diameter
- Minimum laying temperature: 0 Deg C.

Cable Make Up:

Strands of super fine, plain copper wire, core insulation on PVC basis, cold resistant, sheath of cold resistant, special PVC compound, black.

APPLICATION:

- Conveyor and Hoisting equipment
- Transport installations
- For moving machinery parts

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RANGES:

4 cores to 16 cores and 1.5 sq mm to 16 sq mm.

3. WELDING CABLE: HO1N2-D (Rubber Sheathed)/ FFIT (PVC insulated)

The welding cable type HO1N2-D is specially designed for the transmission of high currents from the electric welding machine to the welding tool. It is suitable for flexible use under rugged conditions.

TECHNICAL PARAMETERS: (picture from Lapp cat pg144/CD)

HO1N2-D(Rubber Sheathed)

- Rated voltage: 100/100V
- Test voltage: 1000V
- Bending radius: 4 times the outer diameter
- Max working Temperature: 80 Deg C
- Max short circuit Temperature: 160 Deg C
- Minimum laying Temperature: -15 Deg C
- FFIT (PVC insulated)
- Rated voltage: 300/500V
- Test voltage: 2000 V
- Bending radius: 4 times outer diameter
- Max working Temperature: 70 Deg C
- Max short circuit Temperature: 160 Deg C
- Minimum laying Temperature: 0 Deg C

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DATA TRANSMISSION / COMMUNICATION / SIGNAL CABLES:

Suitable for data transmission and the transfer of signals, shielded conductor cables feature a copper braided shield which deflects external electro-magnetic interferences when it is earthed properly and ensures precise pulse transmission.

TECHNICAL PARAMETERS:
TINNED COPPER WIRE BRAIDED / SHIELDED CABLES:

- Type: LIYCY
- Insulation: PVC
- Stranded pure Copper conductors of fine wires or 7 strands conductor
- Color-code: DIN 47100
- Sheath: Flame Retardant, Low smoke PVC AF-RAL 7032/7001
- Copper Braid Coverage : 85%
- Working Voltage : 250V up to 1 sq.mm & 500V for 1.5 sq.mm
- Test Voltage : 1500V up to 1 sq.mm & 2000V for 1.5 sq.mm
- Range of Cross Section: 0.14 sq.mm to 1.5 sq.mm

SHIELDED – CONDUCTOR CABLES IN A LAYER OF ALUMINIUM POLYESTER FOIL :

- Type: Li Y (st) Y
- Tape: Polyester / Plastic Clad Metal Aluminum Foil
- Drain wire: Tin plated copper wire
- Coverage: 100%
- Insulation: PVC
- Stranded pure Copper conductors of fine wires or 7 strands conductor
- Color-code: DIN 47100
- Sheath: Flame Retardant, Low smoke PVC AF-RAL 7032/7001
- Working Voltage : 250V up to 1 sq.mm & 500V for 1.5 sq.mm
- Test Voltage : 1500V up to 1 sq.mm & 2000V for 1.5 sq.mm
- Range of Cross Section: 0.14 sq.mm to 1.5 sq.mm
- Temperature range: -30 to + 70 Deg C
- Norms: CEI 20-22 II, IEC 332-1
  VDE 0812, VDE 0295 cl. 5 & cl.2.

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TINNED COPPER WIRE BRAIDED / SHIELDED TWISTED PAIRS:

Type: LIYCY(TP)

Cable Make Up:

Fine or multi-wire strands of plain copper wire, PVC-based core insulation, core twisted in layers for reasons cross talk attenuation, various colours to DIN colour code. Screen braiding of tinned copper wires. Outer sheath of special PVC-based compound of flame retardant.

RANGES:

1 core to 44 cores and 0.14 sq.mm to 1.5 Sq.mm.

HALOGEN FREE CABLES FOR HIGH CURRENT & HIGH TEMPERATURE APPLICATIONS:

High quality cross linked polyolefin copolymer insulated and Electronic beam cured wires and cables used in public buildings, airports, runway lighting, hospitals, Power Plants, Railways, Machine Industry, High current converters, Drives and the places where there is high concentration of people. In those places, it is of high importance to try and avoid toxic gases and to contain the formation of smoke. Using Electron Beam accelerators, cross-linking of polyolefin copolymer compound is done. The cables are Flexible, Halogen free, improved fire performance and are suitable for temperature between -70 Deg. C to 155 Deg C. Cores can withstand temperature up to 250 Deg C.

DESIGN:

The conductors are made of tinned fine copper strands as per DIN VDE 0295 class 5(IEC 228, class 5), the insulation is made of a halogen free, electron-beam cross linked polyolefin copolymer with improved fire performance and increased resistance to temperature.

CABLE PROPERTIES: (beta flam)

- Halogen free
- Flame retardant (picture)
- Non – flame propagating
- Fire load
- Toxic gases
- Corrosive gases
- Reduced smoke gas emission
- Infusible
- High current carrying capacity
- High insulation
- Low space requirement

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APPLICATION:

- Mining industry
- Steel industry
- Airports
- Automotive industry
- Furnaces
- Railways
- Nuclear power plants
- Drives
- Lighting industry
- Hydro power plants

CABLES FOR INDUSTRIAL AUTOMATION AND PROCESS CONTROL, PLC / DCS CABLES:

PROFIBUS DP & FMS (purple) cable 2 cores one red and other core green shielded twisted pair copper cable for Siemens Process Field Bus Network. Insulation material is Cellular Polyethylene and sheath material is of Chrome PVC flame retardant, low smoke.

Profibus cable with PE black outer sheath, UV resistance and improved dielectric properties is also available for underground use.

We have in our range RS 485 twisted pairs cables and device net cable as well.

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"CE" MARKED MULTI POLE CONNECTORS MANUFACTURED BY EUROPEAN COMPANY

RECTANGULAR HEAVY DUTY MULTIPOLE INDUSTRIAL CONNECTORS:

The heavy-duty multipole connectors for industrial purposes are used in electric and electronic machinery, control units, electric panels, control equipment, SPMs, CNC Machines, Textile Machinery, Packaging, Printing, Injection Moulding Machines etc. and where connections are required for power and signalling circuits and wherever ease of transportation is called for. The connectors are in conformance with the standard DIN VDE 0627 (European standard IEC 61984) and conformance to the standard DIN 43652. The connectors are suitable for use with alternate or direct current and facilitate the manufacture of sectional electric parts in complex machinery and installation and maintenance. These connectors are confirming to UL, CSA and CE marked with IP 65 protection.

APPLICATION:

- Special purpose machines
- Packaging machines,
- Food processing,
- Robotics,
- Drives,
- CNC, PLCs ,
- Pharmaceuticals ,
- Automotive industries.

RANGES:

3 Pin to 216 pins, 10A to 80A and voltage rating from 250V to 690V

Connectors suitable for aggressive environment and for high temperature applications are also available on request.

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SEMICONDUCTOR AND HRC FUSES

Electronic, Semiconductor, HRC fuses, fuse indicators and microswitches are available from the world's leading manufacturer for protection of electrical and electronic circuits. Our supply range includes fuse link, fuse block, fuse holder and fuse gear. The elements are spot welded or soldered to the end connections which are riveted to the end plates and in turn to the final connecting tags in the relevant styles required namely DIN 43653 and DIN 43620 & so on. Our circuit protection solution complies with major international standards: BIS, IEC, DIN, UL, and CSA.

Conformities:

IEC 269, VDE, DIN 43620, 49360, 49555, 43653, BS 88, 135, 5486, CSA, UL.

Low Voltage fuse links, High speed fuses, Medium voltage fuse links, telecommunications protection, Electronic fuses and accessories are generally available from our stocks.