







TEST CERTIFICATE TO THE PROPERTY OF THE PROPE















Introduction

"Federal Cables"(Fedcab) is part of Federal group of companies established in the year 1999. We are proud partners to the various energy needs of Middle East through different sectors. Fedcab's manufacturing facility is located in Abudhabi, UAE with state of the art machineries and integrated technical expertise.

Apart from Cables, Federal manufactures Power and Distribution transformers, Bus Ducts and Switchgear Panels.

Fedcab manufacture cables of different types like XLPE, PVC, LSZH insulated & HO7RN-F to the specification s like BS, IEC, VDE, GOST or any other international standards.

Quality Standards

Quality Management System Certified To ISO 9001:2015

Fedcab's Quality Management System conforms to the ISO 9001:2015 certified by TUV NORD who are an internationally recognized quality authority.

Certification to the ISO 9001 standard demonstrates that **Fedcab** has documented procedures to ensure and demonstrate full compliance with all requirements of the standard and that these procedures are followed by every department in the company, thus ensuring that goods leaving **Fedcab's** factory are of the highest quality and meet each customer's requirements in every respect.

Environmental Management System Certified To ISO 14001

Fedcab's Environmental Management System confirms to the ISO 14001:2015 International Environmental Management Standard and is certified by TUV NORD who are an internationally recognized certifying authority accredited in the UK and throughout Europe.

Certification to the ISO 14001:2015 International standard shows that Fedcab has a well defined structure and established working practices aimed at limiting its impact on the environment. Measurement and monitoring of effects, issuing work instructions, training of personnel and taking corrective actions are all essential elements to limiting the impact on the environment. Fedcab has set improvement targets to reduce the significant environmental impacts associated with its activities and thus ensuring sustainability.

Occupational Health And Safety Assessment Certified To OHSAS 18001:2007

Fedcab is certified to OHSAS, 18001-2007 TUV NORD an internationally accepted Standard for occupational health and safety management systems. This certification demonstrates **Fedcab's** adherence to sound occupational health and safety practices





Manufacturing, Inhouse Testing & Quality Measures

FedCab takes utmost care while manufacturing its products. We have the latest manufacturing machineries from renowned names like Niehoff-Germany, Rosendhal-Austria and Royle systems-USA. We have online diameter gauges from BETA Lasermike -USA and state of the art Cable Quickie optical non-contact measurement system from Sweden. We have online high voltage testing facility on our extrusion lines. Entire production process is carried out in-house and quality checks are carried out at each stage of production right from raw material to the finished product. We procure raw materials from best available sources which must qualify to our stringent in-house quality standards, prior to their use.

Federal Cables have most modern and fully equipped laboratory for testing raw materials, semi-finished products and finished cables. The laboratory is operated and managed by engineers and managers with extensive experience in the testing field. We have complete in-house facility for testing cables manufactured for fire performance, flame retardance, low smoke, halogen free applications etc.

Fedcab has the latest test facility for conducting fire tests as per BS 50399 where multiple cables are mounted on a vertocal cable ladder and bumt with a specified ignition cource in a chamber to asses the reaction to fire preformance of cables. Fire parameter like flame spread, heat release rate, total heat release, smoke production rate, total smoke production, fire growth rate index and occurrence of flaming droplets/particles are measured. The test ensures complicance to Construction Product Regulation (CPR) requirements of the EU.

Product Range

Low Voltage XLPE or PVC Insulated Power cables

Application: These cables are used for power supply in low voltage installation systems used in buildings or plants. They are well adapted to underground use in industrial applications.

Manufacturing Standards: BS5467 & IEC-60502-1

Voltage Rating: 600/1000V

Max. Operating temperature: 90°c.

Sizes: Single core armoured or unarmored, PVC sheathed cables up to and including 1000 mm²

Two core armoured or unarmoured, PVC sheathed cables up to and including 400mm²

Three core armoured or unarmoured, PVC sheathed cables up to and including 400mm²

Four core armoured or unarmoured,PVC sheathed cables up to and including 400mm²

Four core cables with reduced neutral conductor(3.5 Core) armoured or unarmoured, PVC sheathed cables up to and including 400mm²
Five core armoured or unarmoured, PVC sheathed cables up to and including 95mm².

Cables with FR PVC sheath or MDPE/HDPE sheath can also be supplied as per customer requirement.







LV PVC Insulated Building Wires

Application: These cables consists of bare copper conductor, PVC insulated solid, stranded or flexible conductors used as power supply cables for protected installations for lighting in buildings, wiring appliances, control gear etc. The voltage range is 450/750 V AC or 600/1000 V AC (when used in fixed installation with mechanical protection) with sizes ranging from 1.5mm2 to 630mm2 single core.

Manufacturing Standards: BSEN-50525-2-31/BS6004

Voltage Rating: 450/750V.

Max. Operating temperature: 70°c.

HO7V-R,stranded Class2 copper conductor, PVC insulated HO7V-K, flexible Class5 copper conductor, PVC insulated HO7V-U, solid Class1 copper conductor, PVC insulated

These cables can also be supplied for 90°C continuous operation as well as 105°C applications with suitable PVC insulation.



Application: These cables are used in residential buildings, malls, commercial places where human life is under risk. Normal cables when exposed to fire will produce toxic gases and chemicals which are dangerous for human life. Fedcab-LSZH smoke free cables uses specially formulated non-halogenated polymers to restrict the evolution of smoke and acid gases.

Manufacturing Standards: BS6724, IEC60332-3 & IEC-60754

Voltage Rating: 600/1000V.

Max. Operating temperature: 90°c.

Sizes: Single core armoured or unarmored, LSZH sheathed cables up to and including 1000 mm²

Two core armoured or unarmoured, LSZH sheathed cables up to and including 400mm²

Three core armoured or unarmoured, LSZH sheathed cables up to and including 400mm²

Four core armoured or unarmoured, LSZH sheathed cables up to and including 400mm²

Four core cables with reduced neutral conductor (3.5 Core) armoured or unarmoured, LSZH sheathed cables up to and including 400mm² Five core armoured or unarmoured, LSZH sheathed cables up to and including 95mm².

LV LSZH Insulated Wires

Application: These Wires are used in residential buildings, malls, commercial places etc where human life is under risk. Normal cables when exposed to fire will produce hazardous gases and chemicals which are harmful for human life. **Fedcab-LSZH Smoke free cables** is flame retardant and will not emit toxic gases when exposed to fire.

Manufacturing Standards: BSEN-50525-3-41/ BS7211

Voltage Rating: 450/750V.

Max. Operating temperature: 90°c.

Sizes: Manufactured in sizes from 1.5mm² to 630 mm²







PVC Flexible Cables

Application: Power supply for household accessories like Fan, Air Conditioner, Washing Machine etc.

Manufacturing Standards: BSEN50525-2-11/BS6500

Voltage Rating: 300/500V.

Max. Operating temperature: 70°c.

Sizes: Single core 0.75mm2 to 35mm2 & Multi core(2core, 3Core, 4core & 5 Core) up to 35mm2.

These cables can also be supplied for 90°C continuous operation as well as 105°C applications with suitable PVC insulation and sheath.



Application: Used for control, data & voice transmission, communication for industrial and oil & Gas sectors.

Manufacturing Standards: BSEN50288-7: 2005

Voltage Rating: 300/500V.

Max. Operating temperature: 70°C for PE/PVC & 90°C for XLPE.

Type1.1: Single & Multipar, PE or XLPEInsulated, Overall Screened & PVC Sheathed.

Type1.2: Single & Multipar, PE or XLPE Insulated, Individual & Overall Screened, PVC Sheathed.

Sizes: 2Pair to 50 pairs in size ranging from 0.5 mm2 to 2.5mm2

Type2.1: Single & Multipar, PE or XLPE Insulated, Overall Screened Armoured & PVC Sheathed.

Type2.2: Single & Multipar, PE or XLPE Insulated, Individual &Overall Screened Armoured, PVC Sheathed.

Sizes: 2Pair to 50 pairs in size ranging from 0.5 mm2 to 2.5mm2

Cables with FR PVC, MDPE/HDPE or LSZH sheath can also be supplied as per customer requirement.



Application: These cables are used for power supply in low voltage installation systems in industries for control application.

Manufacturing Standards: BS5467 or ICE60502-1

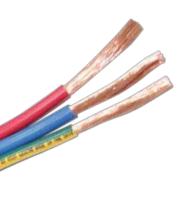
Voltage Rating: 600/1000V.

Max. Operating temperature: 70°C for PVC & 90°C for XLPE.

Control or Auxiliary cables with XLPE or PVC insulation ranging from 1.5mm2 to 4mm2 in 2 core to 48 cores.

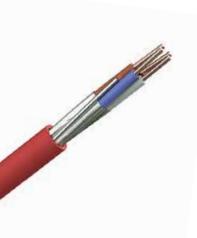












Panel Wires

Application: In wiring of switch, control, metering, relay and instrumentation panels of power switchgear, internal connections in rectifier equipment and its motor starters and controllers.

Manufacturing standard: BS 6231, Type CK

Voltage rating: 600/1000 V

Max. operating temperature: 105°C

Sizes: single core 0.5 Sq.mm to 240 Sq.mm with flexible class 5 conductor and

special PVC heat resistant insulation.

Colours: Red, Yellow, Blue, Black, Brown, White, Grey, Yellow-Green.

Rubber Flexible Cables - H07RN-F

Application: For use with appliances and equipment in industrial or similar environments. They provide very good flexibility, resistant to oil and can withstand mechanical and thermal stresses.

Manufacturing standards: BS EN 50525-2-21 (BS 7919)

Voltage rating: 450/750 V

Max. operating temperature: 60°C. (Cables with max. operating temperature

90°C can also be supplied if requested)

Sizes: 0.5 Sq.mm to 300 Sq.mm. single core and multicore cables with flexible copper conductor, synthetic rubber insulation and sheath.

Fire Resistant Cables

Fire Resistant Single & Multicore Power Cables

Application: For use in emergency power supply, fire fighting systems, hospitals, underground railway etc.

Manufacturing standard: BS 7846

Voltage rating: 600/1000 V

Max. operating temperature: 90°C

Sizes: 1.5 Sq.mm to 400 Sq.mm, single and multicore cables meeting circuit integrity tests as per IEC 60331, BS 6387 Cat. CWZ & BS 7846 cat. F30, 60, F120.

Fire Resistant Screened Multicore & Multipair Cables

Application: For use in fire alarms, emergency lighting systems, public address systems etc.

Enhanced type can be used in high rise buildings, hospitals, underground railway etc

Manufacturing standard: BS 7629

Voltage rating: 300/500 V

Max. operating temperature: 70°C

Enhanced type Class PH 120 as per BS EN 50200 and meeting BS 8434.























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