



LAPP GROUP

Lapp Solutions for Generators, Pumps and HVAC Equipment

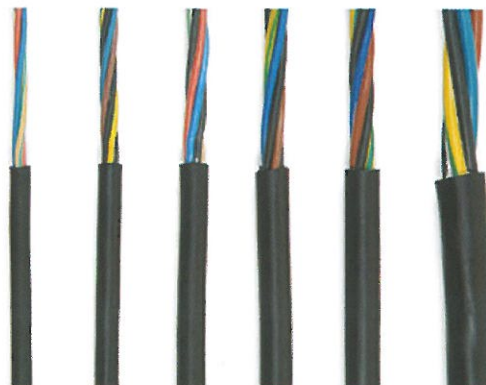


Portable Power - Heavy Duty Trailing Cables

Rapid expansion in the need for reliable, portable power has meant an increase in the sales and rental of large industrial generator sets. Whether it's a new hospital which requires the installation of a back-up generator or on a construction site, where time is of the essence and downtime costs money, it is vitally important that the right cabling solutions are available immediately. To facilitate the connection of portable generator sets, the Lapp Group has developed an extensive range of heavy duty products which have been approved for this market and hold both local and international approvals. These products include Heavy Duty Industrial cables, connectors and glands.

Lapp HO7RN-F

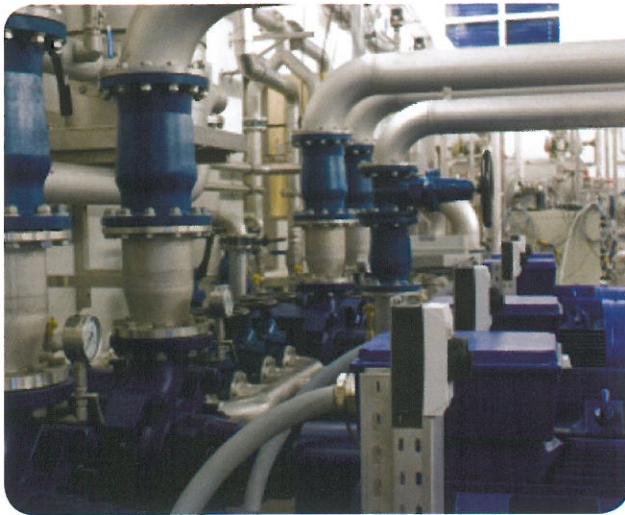
Thanks to its extraordinary flexibility and mechanical strength, the Lapp HO7RN-F cable is ideal for power transmission in both fixed and flexible installations. This cable has been manufactured using compounds which are designed to withstand all weather conditions, most oils and greases, mechanical and thermal stresses. This makes it a great all-purpose power cable for severe industrial applications. Other applications include handling equipment, mobile power supplies, worksites, stage and audio visual equipment. Rated voltage up to 1000 V possible thanks to the high dielectric properties of the insulation material (according to HD 516).



Lapp HO7BN4-F (6381TQ)

With increased temperature resistance to the HO7RN-F, this cable was designed to meet increased demands to ensure that even under the most stressful working environments, this cable will not let you down. Typical applications for the HO7BN4-F cable include heavy duty connecting equipment between pumps and generators, and now we are able to offer a further improved version for Wind Turbines which have class 6 stranded conductors for super flexible torsional applications.

Lapp Solutions for Generators, Pumps and HVAC Equipment



In addition to the products, we manufacture for the portable power market, the Lapp Group have engineered further solutions to meet the additional requirements for submersible pump applications. Our extensive range includes cables designed to be submersed in depths exceeding 10 meters, as well as standard connection cables for controls, panel wire, mains power and lighting.

Lapp HO7RN8-F

With its unique properties, the Lapp HO7RN8-F was designed specifically for the submersible pump market. Its construction and make-up, give the cable far better resistance to demanding conditions, like pressure and temperature which are always present under continuous submersible applications.



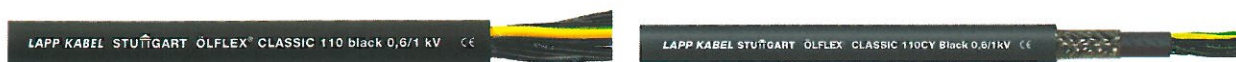
Lapp Product Type Specification	Lapp HO7RN-F	Lapp HO7BN4-F	Lapp HO7RN8-F
Material	Rubber Insulation Type EM2	Rubber Insulation Type EM7	Rubber Insulation Type EM2
Rated Voltage	450/750V Allowed up to 0.6/1kV	450/750V Allowed up to 0.6/1kV	450/750V Allowed up to 0.6/1kV
Oil Resistance	✓	✓	✓
Current Rating Approval	According to VDE 0298 Part 4	According to VDE 0298, Part 4 HD516	According to VDE 0298, Part 4 HD516
Flame Retardent	According to IEC 60332-1-2	According to IEC 60332-1-2	According to IEC 60332-1-2
Conductor Stranding	VDE 0295 Class 5	VDE 0295 Class 5 Available VDE 0295 Class 6	VDE 0295 Class 5
Temperature Range	-40 °C +80 °C	-35 °C +90 °C	-40 °C +80 °C
Bending Radius	6 X Outer Diameter	6 X Outer Diameter	6 X Outer Diameter

Cable Solutions for Heating, Ventilation & Air-conditioning Applications

With constant modernisation in HVAC Systems being designed and developed, there is an ever increasing demand for efficiency. Companies are looking for new innovative products which will assist their control systems and equipment in achieving the best possible results. With Lapp Group being a market leader in industrial Control cables and connectors, we believe we have some of the best products for these applications.

ÖLFLEX CLASSIC 110 BLACK

Lapp's flexible UV Resistant Power cable – 0.6/1kV



ÖLFLEX CLASSIC 110 Black is a flexible PVC cable for use in both power and control applications. This cable can be installed in dry, damp or wet rooms, as well as outside. The cores are class 5 stranded to maximise flexibility and reduce installation time.

ÖLFLEX CLASSIC 110 CY Black is manufactured with a copper braid for EMC applications, as well as to increase the mechanical strength of the cable. The sheath is made from a special PVC formula which has very good resistance to acids, caustic solutions and certain oils.

Lapp NYY and NYCY

Lapp's standard UV Resistant Power cable – 0.6/1kV



Lapp NYY and NYCY cables are VDE approved, black PVC jacketed, power and control cables, with solid and multi-stranded conductors. These power cables are designed for energy supply in cable ducts, power stations, distribution boards and industrial applications. They may also be used in brickwork and in concrete. NYY cables can be installed in open air, underground, in water and indoors. Available in single and multi core variants

ÖLFLEX® ROBUST

ÖLFLEX® ROBUST cables are power and connecting cables for flexible use and fixed installation for robust mechanical use. At room temperature they have increased resistance against acids, caustic solutions and certain vegetable, animal and mineral oils. The black TPE outer sheath is weather proof and has excellent UV resistance, ensuring this range of cables are ideally suited for use in all outdoor applications and will continue flexing at temperatures down to -40°C and up to +80°C. Available in colour coded or number coded cores and also available with a copper screening for EMC protection.





Glands and Heavy Duty Industrial Connectors

SKINTOP® ST-M

Manufactured from a tough nylon material, the Lapp range of SKINTOP® glands offer many advantages over conventional stuffing glands. They are used in substantial volumes on panels, switches, and control equipment and within the wind turbine and photovoltaic industries. The glands feature a unique patented anti-vibration lock and due to their high IP rating (IP68 & IP69K) can be used in a variety of dry or wet industrial environments. Available in thread sizes from 12mm up to 63mm covering outer diameters from 1mm to 45mm.

SKINTOP® COLD

The SKINTOP® COLD is a nickel-plated brass cable gland with a metric connecting thread which combines high quality with regard to consistency and reliability. It is especially designed for use in areas with a high demand on special mechanical stability and cold resistance. The SKINTOP® COLD will work in extreme negative temperatures down to -70°C as well as up to +100°C.

EPIC® ULTRA

The new rectangular connector housing is scratch, impact and corrosion-resistant, making it ideal for use in harsh conditions, e.g. on offshore wind turbines and biogas power plants. When combined with the SKINTOP® MS-M Brush cable gland, the connector is EMC-resistant, as the nickel-coated housing forms an all-over metallic shell that functions like a Faraday cage. This is especially important for the transmission of sensitive BUS signals. Another special feature is that, when connected, the housing provides a safe, 360°, metallic conductive connection, and can also be connected to standard housing units if required. The EPIC® Ultra housings are available in a range of hoods, panel mount and surface mount bases and suit all the existing EPIC® inserts.

Lapp Product Specification	SKINTOP ST-M	SKINTOP BS-M	SKINTOP HF-M	SKINTOP MS-M	SKINTOP MS-SC	SKINTOP CLICK	SKINTOP Cold
Material	Polyamide	Polyamide	Polyamide UL94 V0	Nickel Plated Brass	Nickel Plated Brass	Polyamide	Nickel Plated Brass
IP Rating	IP69K	IP69K	IP68	IP68	IP68	IP68	IP68
EMC Use	X	X	X	X	✓	X	X
Thread	Metric	Metric	Metric	Metric	Metric	N/A	Metric
Temperature Range	-40 °C +100 °C	-20 °C +100 °C	-20 °C +100 °C	-30 °C +100 °C	-30 °C +100 °C	-20 °C +100 °C	-70 °C +100 °C

For more information on all our products suitable for generator, pumps and HVAC applications, please visit our website www.lappgroup.co.uk

Or contact your nearest sales office

London: 020 8758 7800

Glasgow: 0141 950 1061

Dublin: (01) 623 7077

email: sales@lapplimited.com