

RELIABLY CONNECTING INDIA

LAPP, a German brand is a leading supplier of integrated solutions and branded products in the field of cable and connection technology.

We offer a wide range of innovative products and solutions ranging from standard and highly flexible power, control and data cables to industrial connectors, cable entry systems and accessories to customised plug and play solution.

LAPP caters to various industry segments ranging from automation, textile, automotive, machine tools, oil and gas, renewable energy, process industries to infrastructure and building sectors. 'We Reliably Connect India and the World' with our technologically advanced, highly reliable, robust and superior quality products.

ÖLFLEX® POWER LV

OUR BRANDS



ÖLFLEX®
Power and control cables



UNITRONIC®
Data communication systems



ETHERLINE®
Data communication systems
for ETHERNET technology



HITRONIC®
Optical transmission systems



EPIC®
Industrial connectors



SKINTOP®
Cable glands



SILVYN®
Protective cable conduit systems
and cable carrier systems



FLEXIMARK®
Marking systems



ÖLFLEX® POWER LV

Heavy duty power and control installation cable

ÖLFLEX® POWER LV Cables are suitable for use where combination of ambient temperature and temperature rise due to load results in conductor temperature not exceeding 90° C (IS-7098-1-1998), General purpose 70° C & Heat Resisting 85° C (IS 1554-1-1998) under normal operation, 250° C (IS-7098-1-1998) and 160° C (IS 1554-1-1998) under short circuit conditions.



FEATURES

- Available in both armoured and un-armoured variants.
- Single, twin, three, four and multi core cross-linked Polyethylene (XLPE) or Polyvinylchloride (PVC) insulated with FR/FR-LSH and HFFR inner and outer sheath solution.
- More than 10,000 different constructions which serve the purpose of Power and Control application as per end users need.



Halogen-free



UV-resistant



Plant Engineering



Flame-retardant

TECHNICAL SPECIFICATIONS

Parameter	Values																								
Type of Cable	LV Power & Control																								
Voltage Grade	AC:1100 Volts DC:1500 Volts																								
Conductor	Annealed Bare Copper Conductor Standard:IS 8 130/1984																								
Conductor Flexibility	Stranded																								
Conductor Class & Shape	Class II Circular/Circular Compacted/Sector																								
Insulation	XLPE (IS7098 -1-1998) I PVC (IS 1554-1-1998)																								
Core Identification	1 Core: Black - 2 Cores: Red & Black - 3 Cores: Red, Yellow & Blue 4 Cores: Red,Yellow,Blue, Black&Grey - 5 Cores: Red,Yellow,Blue,Black&Grey >5Cores: Numerical Printing																								
Fillers (for circularity) & Separator	Synthetic Fillers and Binder Tapes Polyester Tape																								
Inner Sheath Method	Extruded - PVC ST I, PVC ST II, FRLS PVC ST I, FRLS PVC ST II, LSZH																								
Armour & Direction of Lay	Galvanised Steel Wire / Galvanised Strip Left Hand																								
Outer Sheath	PVC ST I, PVC ST II, FRLS PVC ST I, FRLS PVC ST II, LSZH																								
No.of Cores	Power Cable: Single Core upto 1000sq.mm - 2,3&3.5 upto 400sq.mm - 4 Cores upto 300 sq.mm Control Cable: 2 to 61 Cores in 1.5 & 2.5 sq.mm																								
Temperature Range	<table><tr><td>Insulation</td><td>Continuous Operating Temperature</td><td>Short Circuit Operating Temperature</td></tr><tr><td>XLPE</td><td>90°C</td><td>250°C</td></tr><tr><td>PVC Type A</td><td>70°C</td><td>160°C</td></tr><tr><td>PVC Type B</td><td>85°C</td><td>160°C</td></tr></table>	Insulation	Continuous Operating Temperature	Short Circuit Operating Temperature	XLPE	90°C	250°C	PVC Type A	70°C	160°C	PVC Type B	85°C	160°C												
	Insulation	Continuous Operating Temperature	Short Circuit Operating Temperature																						
	XLPE	90°C	250°C																						
	PVC Type A	70°C	160°C																						
PVC Type B	85°C	160°C																							
HV Test Voltage	3.5 KV AC for 5 Min																								
Additional Properties	UVAR (if required)																								
Flame Properties	<table><tr><td></td><td>PVC</td><td>FRLS</td><td>LSZH</td></tr><tr><td>Min Oxygen Index (ASTM D 2863)</td><td>29%</td><td>29%</td><td>30%</td></tr><tr><td>Min Temperature Index (ASTM D 2863)</td><td>250°C</td><td>250°C</td><td>250°C</td></tr><tr><td>Smoke Density (visibility) (ASTM D 2843)</td><td>25%</td><td>40%</td><td>80%</td></tr><tr><td>Acid Gas Generation</td><td>40%</td><td>20%</td><td>0.5%</td></tr><tr><td>Flame Retardant</td><td>IEC 60332-1 IEC 60332-3</td><td>IEC 60332-1 IEC 60332-3</td><td>IEC 60332-1 IEC 60332-3</td></tr></table>		PVC	FRLS	LSZH	Min Oxygen Index (ASTM D 2863)	29%	29%	30%	Min Temperature Index (ASTM D 2863)	250°C	250°C	250°C	Smoke Density (visibility) (ASTM D 2843)	25%	40%	80%	Acid Gas Generation	40%	20%	0.5%	Flame Retardant	IEC 60332-1 IEC 60332-3	IEC 60332-1 IEC 60332-3	IEC 60332-1 IEC 60332-3
		PVC	FRLS	LSZH																					
	Min Oxygen Index (ASTM D 2863)	29%	29%	30%																					
	Min Temperature Index (ASTM D 2863)	250°C	250°C	250°C																					
	Smoke Density (visibility) (ASTM D 2843)	25%	40%	80%																					
	Acid Gas Generation	40%	20%	0.5%																					
Flame Retardant	IEC 60332-1 IEC 60332-3	IEC 60332-1 IEC 60332-3	IEC 60332-1 IEC 60332-3																						