

# High Voltage LAN Transformers

## Means of Protection (MOP)

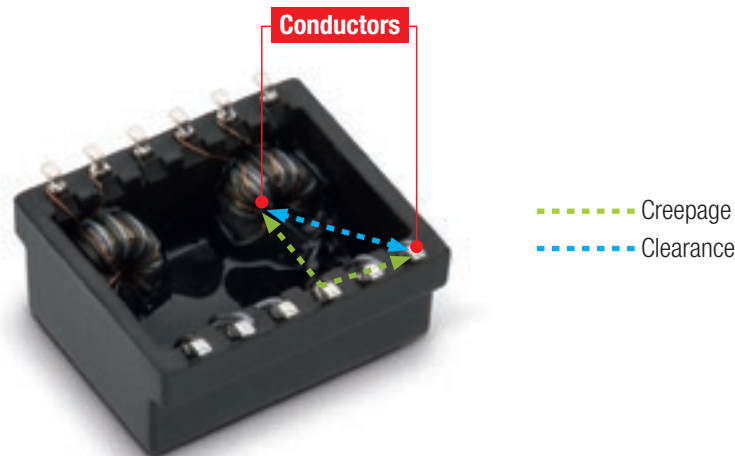
Means Of Patient Protection (MOPP)  
Means Of Operator Protection (MOOP)

## Creepage distance

Shortest distance along the surface of a solid insulating material between two conductive parts

## Clearance distance

Shortest distance in air between two conductive parts



## Functional insulation

Needed for the correct function of the equipment

## Safety insulation

There are different safety classes, based on the used wire technology



Classifications	Isolation	Creepage	Insulation
One MOOP	1500 Vac	2.5 mm	Basic
Two MOOP	3000 Vac	5 mm	Double/Reinforced
One MOPP	1500 Vac	4 mm	Basic
Two MOPP	4000 Vac	8 mm	Double/Reinforced

IEC 60601 3rd edition requirements by classification

Order Code	Isolation Voltage	Insulation level	Clearance distance (min)	Creepage distance (min)
7490140117C	2.5 kV	Basic	2.4 mm	4 mm
7490140122B	4.5 kV	Reinforced	7 mm	8.6 mm
7490140123B	4.5 kV	Reinforced	7 mm	8.6 mm
749024015C	2.5 kV	Basic	2.4 mm	4 mm
7490240120	4 kV	Reinforced	3 mm	4 mm