

UMANG BOARDS LIMITED

PRODUCT DATA SHEET

CYLINDER



Cylinder

AS PER IEC 60641-1 TYPE B 4.1

CHARACTERISTIC FEATURES

1. 100 % Electrical grade Sulphate Pulp
2. Natural –coloured
3. Made of Umang Transformers Board
4. High Purity and oil absorption
5. Insulation class A (105°C)
6. Good compatibility with liquid dielectrics strength



APPLICATIONS

Insulation of winding in Transformers

Split angle ring A (1x300°) + snout (1x60°)

Angle ring in segments B (5x60°) + snout (1x60°)

VARIANTS

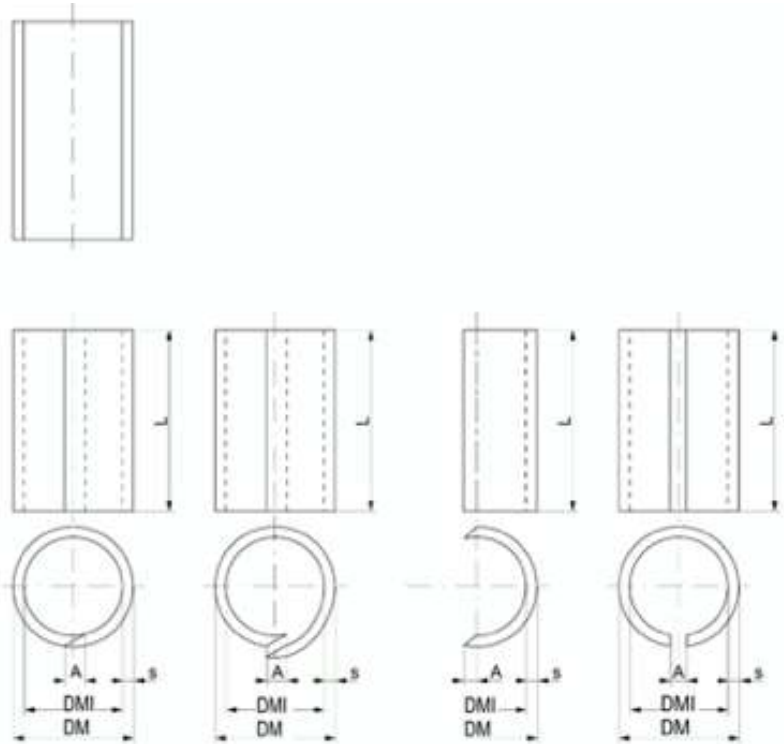
Umang Cylinder are available in the following shapes: -

Cylinder 0	Without axial chamfer
Cylinder A	Axial chamfer one sided outside
Cylinder B	Axial chamfer one sided inside
Cylinder C	Axial chamfer both side, Once inside, Once Outside
Cylinder D	Axial chamfer both sides outside
Cylinder E	Axial chamfer both sides inside



CYLINDER "O"

TECHNICAL DRAWING



Dimension

s	DMI	L	A
1 mm	≥150 to ≤500 mm	Max. 1000 mm	70 mm
1 mm	>500 to ≤2500 mm	Max.3000mm	70 mm
2 mm	≥150 to ≤500 mm	Max.1000 mm	90 mm
2 mm	>500 to ≤2500 mm	Max.3000 mm	90 mm
3 mm	≥250 to ≤500 mm	Max.1000mm	110 mm
3 mm	>500 to ≤2500 mm	Max.3000mm	110 mm
4 mm	≥300 to ≤500 mm	Max.1000mm	130 mm
4 mm	>500 to ≤2500 mm	Max.3000mm	130 mm
5 mm	≥350 to ≤500 mm	Max1000mm	150 mm
5 mm	>500 to ≤2500 mm	Max.3000mm	150 mm



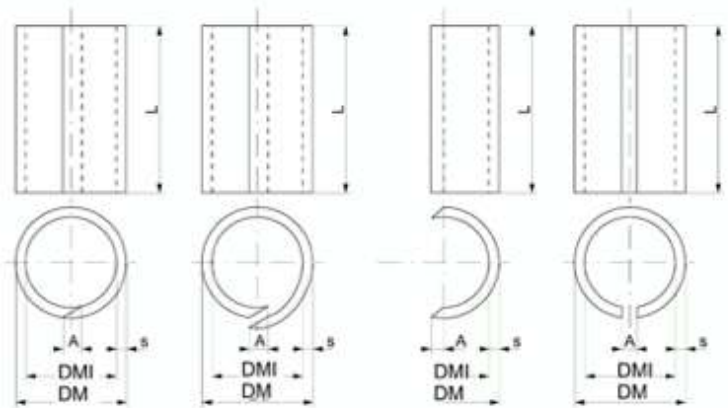
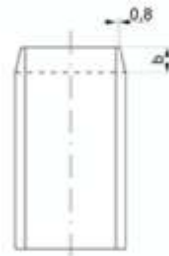
6 mm	>600 to ≤2500 mm	Max.3000mm	170mm
7 mm	>700 to ≤2500 mm	Max.3000mm	170 mm
8mm	>800 to ≤2500 mm	Max.3000mm	170mm

Tolerances after drying

s	± 10 % ; overlapping area +1.0 mm/-0.5 mm
L	+2.0 / -4.0 mm
DMI ≤ 1000 mm	±1.5 mm
DMI > 1000 -2000 mm	±2.0 mm
DMI > 2000 mm	±2.5 mm
A	+10/ -5mm

CYLINDER "A"

TECHNICAL DRAWING



Dimensions

s	DMI	L	A
1 mm	≥150 to ≤500 mm	Max. 1000 mm	70 mm
1 mm	>500 to ≤2500 mm	Max.3000mm	70 mm
2 mm	≥150 to ≤500 mm	Max.1000 mm	90 mm
2 mm	>500 to ≤2500 mm	Max.3000 mm	90 mm
3 mm	≥250 to ≤500 mm	Max.1000mm	110 mm
3 mm	>500 to ≤2500 mm	Max.3000mm	110 mm
4 mm	≥300 to ≤500 mm	Max.1000mm	130 mm
4 mm	>500 to ≤2500 mm	Max.3000mm	130 mm
5 mm	≥350 to ≤500 mm	Max1000mm	150 mm



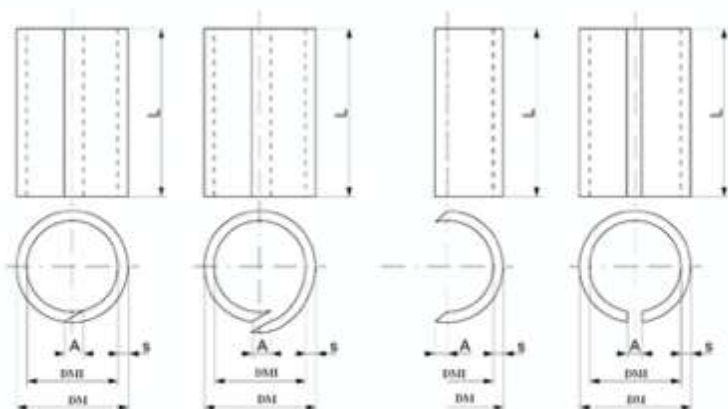
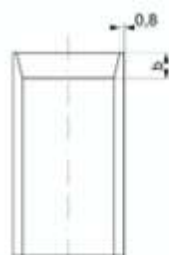
5 mm	>500 to ≤2500 mm	Max.3000mm	150 mm
6 mm	>600 to ≤2500 mm	Max.3000mm	170mm
7 mm	>700 to ≤2500 mm	Max.3000mm	170 mm
8mm	>800 to ≤2500 mm	Max.3000mm	170mm

Tolerances after drying

s	± 10 % ; overlapping area +1.0 mm/-0.5 mm
L	+2.0 / -4.0 mm
DMI ≤1000 mm	±1.5 mm
DMI >1000 -2000 mm	±2.0 mm
DMI >2000mm	±2.5 mm
b, A	+10/ -5mm

CYLINDER "B"

TECHNICAL DRAWING



Dimensions

s	DMI	L	A
1 mm	≥150 to ≤500 mm	Max. 1000 mm	70 mm
1 mm	>500 to ≤2500 mm	Max.3000mm	70 mm
2 mm	≥150 to ≤500 mm	Max.1000 mm	90 mm
2 mm	>500 to ≤2500 mm	Max.3000 mm	90 mm
3 mm	≥250 to ≤500 mm	Max.1000mm	110 mm
3 mm	>500 to ≤2500 mm	Max.3000mm	110 mm
4 mm	≥300 to ≤500 mm	Max.1000mm	130 mm



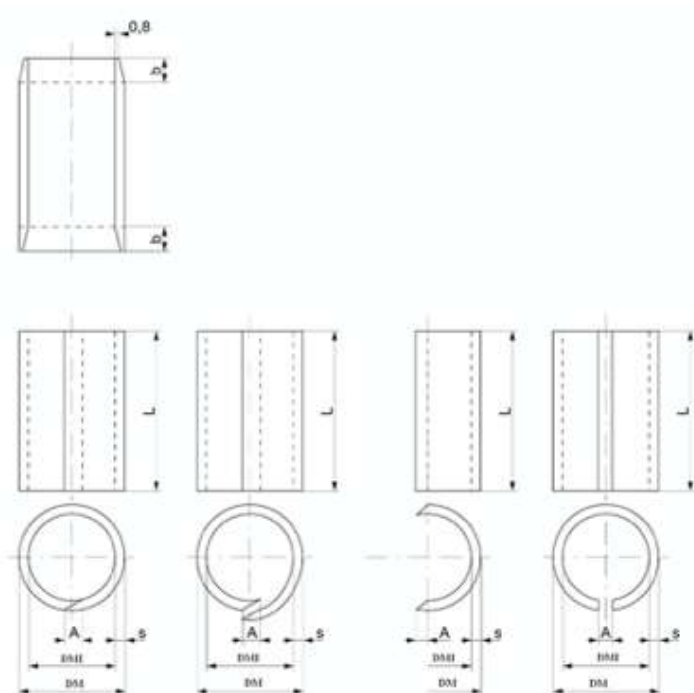
4 mm	>500 to ≤2500 mm	Max.3000mm	130 mm
5 mm	≥350 to ≤500 mm	Max1000mm	150 mm
5 mm	>500 to ≤2500 mm	Max.3000mm	150 mm
6 mm	>600 to ≤2500 mm	Max.3000mm	170mm
7 mm	>700 to ≤2500 mm	Max.3000mm	170 mm
8mm	>800 to ≤2500 mm	Max.3000mm	170mm

Tolerances After drying

s	± 10 % ; overlapping area +1.0 mm/-0.5 mm
L	+2.0 / -4.0 mm
DMI ≤1000 mm	±1.5 mm
DMI >1000 -2000 mm	±2.0 mm
DMI >2000mm	±2.5 mm
b, A	+10/ -5mm

CYLINDER "C"

TECHNICAL DRAWING



Dimensions

s	DMI	L	A
1 mm	≥150 to ≤500 mm	Max. 1000 mm	70 mm
1 mm	>500 to ≤2500 mm	Max.3000mm	70 mm
2 mm	≥150 to ≤500 mm	Max.1000 mm	90 mm
2 mm	>500 to ≤2500 mm	Max.3000 mm	90 mm
3 mm	≥250 to ≤500 mm	Max.1000mm	110 mm



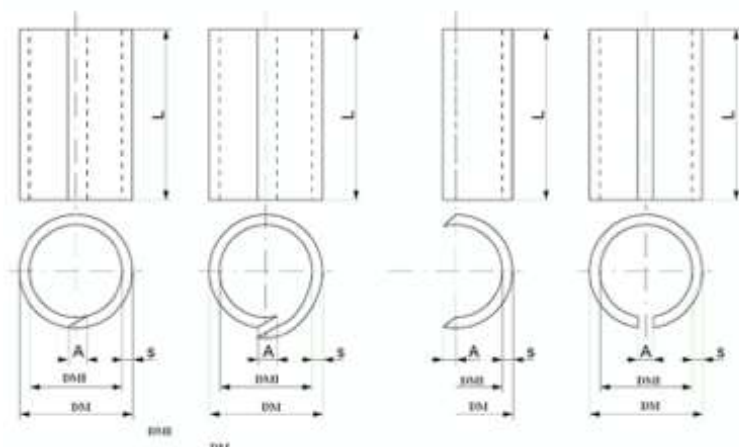
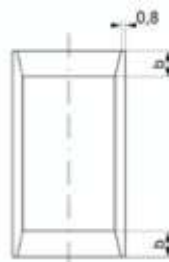
3 mm	>500 to ≤2500 mm	Max.3000mm	110 mm
4 mm	≥300 to ≤500 mm	Max.1000mm	130 mm
4 mm	>500 to ≤2500 mm	Max.3000mm	130 mm
5 mm	≥350 to ≤500 mm	Max1000mm	150 mm
5 mm	>500 to ≤2500 mm	Max.3000mm	150 mm
6 mm	>600 to ≤2500 mm	Max.3000mm	170mm
7 mm	>700 to ≤2500 mm	Max.3000mm	170 mm
8mm	>800 to ≤2500 mm	Max.3000mm	170mm

Tolerances After drying

s	± 10 % ; overlapping area +1.0 mm/-0.5 mm
L	+2.0 / -4.0 mm
DMI ≤1000 mm	±1.5 mm
DMI >1000 -2000 mm	±2.0 mm
DMI >2000mm	±2.5 mm
b, A	+10/ -5mm

CYLINDER "D"

TECHNICAL DRAWING



Dimensions

s	DMI	L	A
1 mm	≥150 to ≤500 mm	Max. 1000 mm	70 mm
1 mm	>500 to ≤2500 mm	Max.3000mm	70 mm



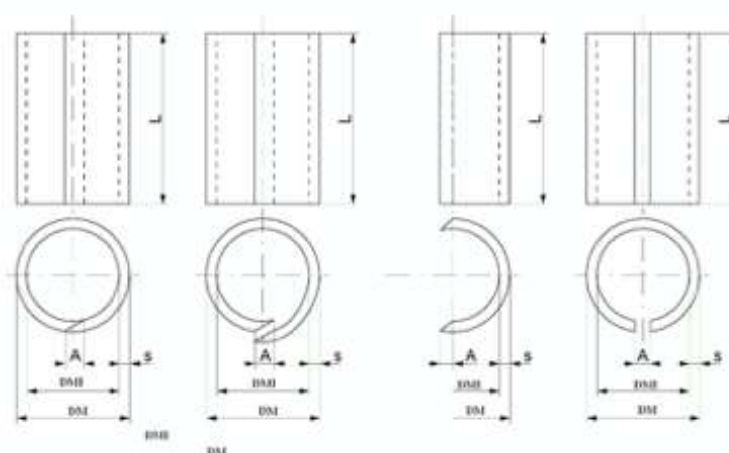
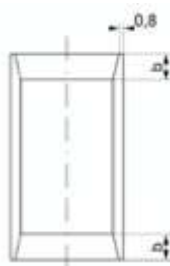
2 mm	≥150 to ≤500 mm	Max.1000 mm	90 mm
2 mm	>500 to ≤2500 mm	Max.3000 mm	90 mm
3 mm	≥250 to ≤500 mm	Max.1000mm	110 mm
3 mm	>500 to ≤2500 mm	Max.3000mm	110 mm
4 mm	≥300 to ≤500 mm	Max.1000mm	130 mm
4 mm	>500 to ≤2500 mm	Max.3000mm	130 mm
5 mm	≥350 to ≤500 mm	Max1000mm	150 mm
5 mm	>500 to ≤2500 mm	Max.3000mm	150 mm
6 mm	>600 to ≤2500 mm	Max.3000mm	170mm
7 mm	>700 to ≤2500 mm	Max.3000mm	170 mm
8mm	>800 to ≤2500 mm	Max.3000mm	170mm

Tolerances After drying

s	± 10 % ; overlapping area +1.0 mm/-0.5 mm
L	+2.0 / -4.0 mm
DMI ≤1000 mm	±1.5 mm
DMI >1000 -2000 mm	±2.0 mm
DMI >2000mm	±2.5 mm
b, A	+10/ -5mm

CYLINDER "E"

TECHNICAL DRAWING



Dimensions

s	DMI	L	A
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1 mm	≥150 to ≤500 mm	Max. 1000 mm	70 mm
1 mm	>500 to ≤2500 mm	Max.3000mm	70 mm
2 mm	≥150 to ≤500 mm	Max.1000 mm	90 mm
2 mm	>500 to ≤2500 mm	Max.3000 mm	90 mm
3 mm	≥250 to ≤500 mm	Max.1000mm	110 mm
3 mm	>500 to ≤2500 mm	Max.3000mm	110 mm
4 mm	≥300 to ≤500 mm	Max.1000mm	130 mm
4 mm	>500 to ≤2500 mm	Max.3000mm	130 mm
5 mm	≥350 to ≤500 mm	Max1000mm	150 mm
5 mm	>500 to ≤2500 mm	Max.3000mm	150 mm
6 mm	>600 to ≤2500 mm	Max.3000mm	170mm
7 mm	>700 to ≤2500 mm	Max.3000mm	170 mm
8mm	>800 to ≤2500 mm	Max.3000mm	170mm

Tolerances After drying

s	± 10 % ; overlapping area +1.0 mm/-0.5 mm
L	+2.0 / -4.0 mm
DMI ≤1000 mm	±1.5 mm
DMI >1000 -2000 mm	±2.0 mm
DMI >2000mm	±2.5 mm
b, A	+10/ -5mm

