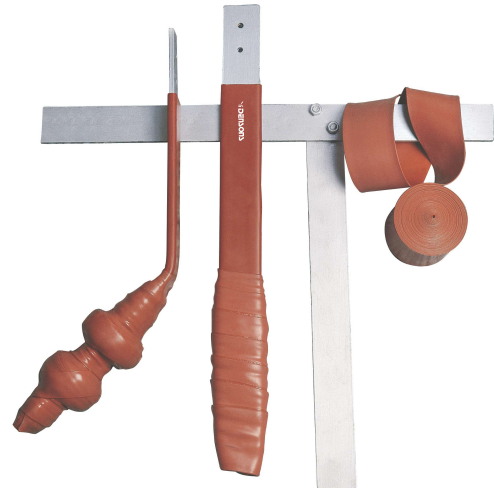


## YAMUNA DENSONS Heat Shrinkable Medium Voltage Insulation Tape upto 36 kV

### Features :

- Reduces bus bar clearance requirements
- Protects against accidental flashover
- Continuous operation temperature: -40°C to 125°C
- Halogen free
- Shrink Temperature: 120°C
- Anti-track

Anti-Track adhesive coated Heat Shrink Tape specially designed for insulation & protecting medium voltage bus bar upto 36 kV.



### Specifications:

#### Heat Shrink Medium Voltage Bus Bar Tape (for Service upto 36 kV over bolted Bus Bar)

Code	Roll Width (min.) mm	Backing Thickness Recovered (Nom) mm	Roll Length mtr.
DHSIT - 1	25.0	1.0	5
DHSIT - 2	50.0	1.0	5

#### Installation Instruction

A 2/3 overlap is recommended  
One layer application required upto 17 kV  
Two layer application required upto 25 kV  
Three layer application required upto 36 kVa

**Dimensions- Available in width of 25 mm & 50 mm**

#### Clearance with Insulation

(for Service upto 36 kV over bolted Bus Bar)

System Voltage	Bus kV	P to P mm	P to G mm
15 kV	95	64	74
17 kV	110	86	106
25 kV	125	114	152
36 kV	175	200	285

#### P to P

Phase to Phase orientation  
Spacing based on metal to metal

#### P to G

Phase to ground orientation  
Dimensions prior to insulation

Space based on insulation wall thickness per application range of above tables.

### Technical Data for Heat Shrink Medium Voltage Insulation Tape

Property	Requirements	Test Method
<b>Physical</b>		
Tensile Strength	8 N/mm <sup>2</sup> (min.)	ASTM D 412, ISO 37
Ultimate Elongation	200% (min.)	ASTM D 412, ISO 37
Volume Resistivity	1 x 10 <sup>12</sup> Ω cm. (min.)	ASTM D 257
Low Temperature Flexibility (4 hrs at -20° C)	No cracking	ASTM D 2671
<b>Heat Ageing (7 days at 175° C)</b>		
Tensile Strength	7 N/mm <sup>2</sup> (min.)	ASTM D 2671
Elongation	100% (min.)	ASTM D 2671
Heat Shock	No cracking or flowing	ASTM D 2671
<b>Electrical</b>		
Dielectric Strength	10 kV/mm (min.)	ASTM D 149
Dielectric Constant	3-5	ASTM D 150
Tracking Resistance	Non-Tracking	ASTM D 2303
Corrosion	No corrosion	ASTM D 2671
Water Absorption	0.5% (max.)	ASTM D 570
<b>Adhesive</b>		
Adhesive Softening Point	100° C	ASTM D 28
Low Temperature Flexibility	-25 C	ESI 0913
Tracking Resistance	Non-Tracking	ASTM D 2303

## YAMUNA DENSONS EPR Insulating Tape



### Features :

- Good Physical & Electrical Properties
- Self Amalgamating
- Reduces bus bar clearance requirements
- Protection against accidental flashover
- Continuous operation temperature: -40°C to 130°C

### Technical Data for EPR Insulating Tape

Property	Requirements	Test Method
<b>Physical</b>		
Electrical Strength	35 kV/mm (Min.)	ASTMD 149:64
Water Absorption	0.5% (Max.)	ASTMD 570:63
Ultimate Elongation	800%	ASTMD 412:75
Volume Resistivity (20°C)	10 <sup>13</sup> ohm cm (Min.)	ASTMD 257:75
Low Temperature Flexibility	No cracking after 4 hours at -20°C (Max.)	
Temperature Range	-40°C to 100°C continuous upto 130°C for limited period during overload conditions	
Thickness	0.75 ± 0.05 mm	
Length	10.0 Mtr.	
Width	19, 25 & 38 ± 1 mm	
Colour	Black	

## YAMUNA DENSONS EPR Semi Conducting Tape



### Features :

- Semi-conducting
- Self fusing
- Resistance to ozone & UV
- Retain its conductivity when stretched

### Technical Data for EPR Semi-conducting Tape

Property	Requirements	Test Method
<b>Physical</b>		
Tensile Strength	1.3 MPa	ASTM D 4325
Elongation at Break	800%	ASTM D 4325
Volume Resistivity	$<7 \times 10^8$ ohm cm	ASTM D 4325
Heat Ageing (130°C) 168 hrs.	Pass	ASTM D 4325
Self Fusing	Pass	ASTM D 4325

### Packing

Item Code	Diameter (mm)	Colour
DC-72	19mm x 0.75mm x 4.5m	Black

Note : Other size is available on request

## YAMUNA DENSONS Black Mastic Tape



### Features :

- Void Filling
- Water Proof
- Self Amalgamating
- Oil Resistance
- Butyl Rubber Sealant Tape

### Specifications:

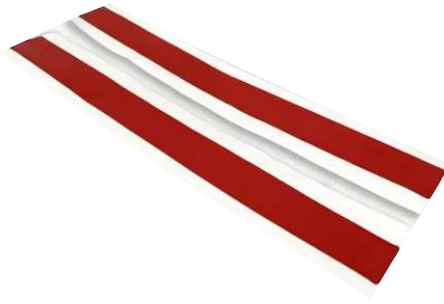
#### Black Mastic Tape

Code	Width	Thickness	Length
DMST400	35 ± 2 mm	3 ± 0.3 mm	400 ± 5 mm

#### Technical Data for Black Mastic Tape

Property	Requirements	Test Method
Low Temperature Flexibility (4 hrs at -20 C)	No Cracking	ENATS 09 13
Continuous Operating Temperature	No Splitting, Cracking, Dripping or Following at 100 C.	ENATS 09 13
Ultimate Elongation	100% (min.)	ASTM D 412
Visual Examination	Free From Pin Holes, Cracks, Inclusions & Other Visible Defects	
Volume Resistivity	1 x 10 <sup>12</sup> ohm cm. (min.)	ASTM D 257
Colour	Black	
Water Absorption	0.5% (max)	ENATS 09 13
Amalgamation	The tape becomes one mass after application. This can be tested on any size of metal mendel. The mass (tape) after application can be easily cut longitudinally with a knife and will then be checked for its amalgamation. It is observed that the tape does not crack after application, thus passing the amalgamation test.	

## YAMUNA DENSONS Red Mastic Tape



### Features :

- Void Filling
- Water Proof
- Self Amalgamating
- Oil Resistance
- Anti Track

### Specifications:

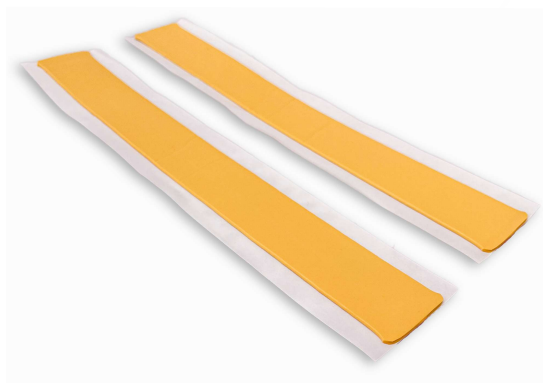
#### Red Mastic Tape

Code	Width	Thickness	Length
DRMT400	25 ± 2 mm	1.5 ± 0.3 mm	300 ± 5 mm

#### Technical Data for Black Mastic Tape

Property	Requirements	Test Method
Low Temperature Flexibility (4 hrs at -20 C)	No Cracking	ENATS 09 13
Continuous Operating Temperature	No Splitting, Cracking, Dripping or Following at 100 C.	ENATS 09 13
Ultimate Elongation	100% (min.)	ASTM D 412
Visual Examination	Free From Pin Holes, Cracks, Inclusions & Other Visible Defects	
Volume Resistivity	1 x 10 <sup>12</sup> ohm cm. (min.)	ASTM D 257
Colour	Red	
Water Absorption	0.5% (max)	ENATS 09 13
Amalgamation	The tape becomes one mass after application. This can be tested on any size of metal mendel. The mass (tape) after application can be easily cut longitudinally with a knife and will then be checked for its amalgamation. It is observed that the tape does not crack after application, thus passing the amalgamation test.	

## YAMUNA DENSONS Stress Control Mastic Tape (Yellow)



### Features :

- Void Filling
- Stress Relief
- Self Fusing
- Water Proof
- Self Amalgamating

### Specifications:

#### Stress Control Mastic Tape (Yellow)

Code	Width (mm)	Thickness (mm)	Length (mm)
DSCM120	20 ± 1	2 ± 0.2	120 ± 5
DSCM150	20 ± 1	2 ± 0.2	150 ± 5
DSCM180	20 ± 1	2 ± 0.2	180 ± 5
DSCM500	30 ± 1	2 ± 0.2	200 ± 5

#### Technical Data for Black Mastic Tape

Property	Requirements	Test Method
Low Temperature Flexibility (4 hrs at -20 C)	No Cracking	ENATS 09 13
Continuous Operating Temperature	No Splitting, Cracking, Dripping or Following at 100 C.	ENATS 09 13
Ultimate Elongation	300% (min.)	ASTM D 412
Visual Examination	Free From Pin Holes, Cracks, Inclusions & Other Visible Defects	
Volume Resistivity	1 x 10 <sup>9</sup> ohm cm. (min.)	ASTM D 257
Colour	Yellow	
Water Absorption	0.5% (max)	ENATS 09 13

## YAMUNA DENSONS Silicone Rubber Electrical Tape



### Features :

- High tracking resistance
- Resistance to solvents
- Resistance to Ozone, UV
- Withstand high / low temperature
- Self fusing rubber (-50°C to 250°C)

### Technical Data for Silicone Rubber Electrical Tape

Property	Requirements	Test Method
<b>Physical</b>		
Tensile Strength	6 MPa	ASTM D 4325
Elongation at Break	400%	ASTM D 4325
Heat Ageing	Pass	ASTM D 4325
Ozone Ageing	Pass	ASTM D 4325
UV Ageing	Pass	ASTM D 4325

### Packing

Item Code	Dimension	Colour
DC-73	19mm x 0.3mm x 15m	Grey
DC-73	19mm x 0.5mm x 15m	Grey
DC-73	25mm x 0.3mm x 15m	Grey
DC-73	25mm x 0.5mm x 15m	Grey
DC-73	25mm x 0.5mm x 11m	Grey

## YAMUNA DENSONS Colour Coding Electrical PVC Tape



### Features :

- High elongation at break
- Resistance to chemical corrosion
- Phase identification / colour coding
- Pressure sensitive electrical tape
- Upto 600 Volts

### Technical Data for Colour Coding Electrical PVC Tape

Property	Requirements	Test Method
<b>Physical</b>		
Tensile Strength	30N/18mm	ASTM D 1000
Elongation at Break	100%	ASTM D 1000
Adhesion (Steel Plate)	3N/18mm	ASTM D 1000
Dielectric Constant	3	ASTM D 4325
Dielectric Strength	50kV/mm	ASTM D 4325

### Packing

Item Code	Dimension	Colour
DC-60	18mm x 0.10mm x 7m	Red
DC-60	18mm x 0.10mm x 7m	Yellow
DC-60	18mm x 0.10mm x 7m	Blue
DC-60	18mm x 0.10mm x 7m	Black
DC-60	18mm x 0.10mm x 7m	White

Note : Other size is available on request



## YAMUNA DENSONS Fire Proofing Tape



### Features :

- Self fusing
- Fire retardant
- Easy installation
- Heat resistance

### Technical Data for Fire Proofing Tape

Property	Requirements	Test Method
<b>Physical</b>		
Tensile Strength	6 MPa	GB/T2951.11
Elongation at Break	400%	GB/T2951.11
Flame Retardant	0.93	GA478-2004
Water Resistance	Pass	GA478-2004
Self Fusing	Pass	GA478-2004

### Packing

Item Code	Diameter (mm)	Colour
DC-70	50mm x 0.75mm x 6m	Black

Note : Other size is available on request

## YAMUNA DENSONS Armour Cast Tape



### Features :

- Fast hardening
- Simple and Fast Installation
- High Tensile strength
- Resistance to water and corrosion

### Technical Data for Armour Cast Tape

Property	Requirements	Test Method
<b>Physical</b>		
Tensile Strength	>400N	ASTM D 1000
Time of Hardening	5-12 minutes	-
Corrosion Resistance	Pass	ASTM D 1373
Heat Ageing	Pass	ASTM D 1373

### Packing

Item Code	Diameter	Colour
DC-88	4 Inch(10.2cm) x 15 Ft(4.6m)	Black
DC-88	100mm x 3m	Black

Note : Other size is available on request