

# MCC-600C CARBON CONDUCTOR

MCC-600C has been formulated as a general purpose Polymer Thick Film Carbon containing conductor for use on membrane switch and EL. The MCC-600C is used to fabricate low voltage circuitry especially on flexible substrates.

By using a unique combination of carbon, graphite and resin technology, the MCC-600C possesses excellent conductivity, abrasion resistance and printability.

It can be used with semi-automatic and manual printers and offers excellent residence time on the screen.

## Typical Properties:

Volume Resistivity ( $\Omega$ /sq/cm) @ 0.73mm x 400mm ZigZag Pattern	$\leq 0.5\Omega$ .cm
Adhesion / Tape Pull	100/100 (no material removal)
Abrasion Resistance, Pencil Hardness (ASTM D3363-74)	H
Viscosity (Poise) (BF/HBT DV-11, #14, 20rpm, 25°C)	10,000 $\pm$ 1,000 (CPS)
Solderability	Not Recommended
Shelf Life	6 mths in Unopened Container

## Processing:

Printing	Suitable for Manual, Semi-automatic,
Substrates	Polyester, Polycarbonate
Ink Residence Time on Screen	> 2 Hours
Screen Types	Polyester, Stainless Steel
Typical Cure Conditions	Box Oven : 90°C for 15 mins
Typical Circuit Line Thickness Printed with 270 mesh Polyester	5-8 Microns
Cleanup Solvent	Ethylene diacetate, Toluene
Storage	Store at ambient temp, some settling of solids may occur, stir vigorously before use

Specification subject to change without prior notice

## Safety & Handling:

The following precautions should be exercised when handling:

Avoid prolonged contact with skin. If contact with skin occurs, wash immediately with soap and water  
 Use with adequate ventilation, avoid prolonged breathing of vapour  
 Dangerous if swallowed - DO NOT CONSUME

The performance characteristics are influenced and affected by printing technique, nature of substrate, curing time, curing temperature and type of drying equipment.

Before adopting our products for commercial use, the user assumes responsibility for determining fitness of use in their particular application and process. MEMCON makes no warranties and assumes no liability in connection with any use of this information.

### MEMCON (Asia) Limited

Level 7 Parkview Centre  
 7 Lau Li Street Causeway Bay Hong Kong  
 T +852 3741 1411 F +852 3747 8980  
 www.memcon.asia sales@memcon.asia

GB Issue 1

### MEMCON Limited

Compass House Vision Park Chivers Way HISTON  
 Cambridge CB24 9AD United Kingdom  
 T +44 1223 257724 F +44 1223 257800  
 www.memcon.eu sales@memcon.eu

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### MEMCON North America

3786 Stadium Drive Bridgman  
 Michigan 49106 USA  
 T +1 269 466 5632 F +1 269 466 6034  
 www.memcon.net sales@memcon.net