

DIARY OF
EVENTS
2015

MARCH

DATA CENTRE WORLD

Wednesday 11th - Thursday 12th

Excel, London

www.datacentreworld.com

APRIL

ELEXSHOW

Thursday 23rd - Friday 24th

Westpoint, Exeter

www.elexshow.info

MAY

RAILTEX 2015

Tuesday 12th - Thursday 14th

NEC, Birmingham

www.railtex.co.uk

ES LIVE

Thursday 14th

Madejski Stadium, Reading

www.es-live.co.uk

JUNE

ELEXSHOW

Thursday 11th - Friday 12th

Event City, Manchester

www.elexshow.info

IFSEC

Tuesday 16th - Thursday 18th

Excel, London

www.ifsec.co.uk

SEPTEMBER

DSEI

Tuesday 15th - Friday 18th

Excel, London

www.dsei.co.uk

esnews

Latest industry news from the UK electrical marketplace

Distributor stocks mil-spec cable and wire



The range of
mil-spec cable and
wire from Aerco is
suitable for use in
harsh conditions

Mil-spec wire and cable to suit many applications in the military and aerospace industries is held by Aerco.

Choosing from a variety of suppliers, the range conforms to the strict standards set by Mil-DTL-16878 (Mil-WV-16878), SAE-AS-22759 (Mil-DTL-22759), NEMA-WC-27500 (Mil-DTL-27500).

The Mil-spec range is supplied in varied colours and sizes and is suitable for tactical and communications equipment, command and control and intelligence information systems,

advanced radar units, target acquisition and tracking systems, automated weapons control,

www.aerco.co.uk

Students embark on robot project for
search and rescue

Warwick Mobile Robotics (WMR) is a group research project carried out by a team of fourth year undergraduate students at the University of Warwick. It is jointly run by the School of Engineering and Warwick Manufacturing Group (WMG). Each year a team develops an urban search and rescue (USAR) robot designed to navigate disaster zones such as a collapsed building. This year, the WMR team is developing a miniature urban search and rescue (M-USAR) robot to fit into smaller areas inaccessible by emergency personnel. The robot is driven using two of Maxon's EC - four-pole 22.90W brushless motors. Each motor is connected to a GP 32 C planetary gearbox offering a 123:1 reduction in motor output speed. This generates the required torque to allow the robot to negotiate difficult obstacles. The high motor efficiency (88%) makes maximum use of the available battery power.



A rendered CAD (computer aided design) image of what the robot will look like when complete

A sensor array includes CO₂ and infra-red sensors, front and rear facing cameras, speaker and microphone and a LIDAR mapping sensor to help map the areas and identify victims. The 2mm thick aluminium shell acts as a heatsink for the internal components, while a fan helps to distribute the heat within the robot evenly. An Xbox pad controls the robot via WiFi for driving control. The robot is still being developed with the aim of manufacturing it before Easter 2015.

www.maxonmotor.co.uk