HELUKABEL® Unveils One Cable Technology for Servo Motors

ELGIN, Illinois – HELUKABEL®, one of the world’s leading cable manufacturers, has announced it has expanded its motor cable product portfolio with the introduction of the new TOPSERV® Hybrid PVC and TOPSERV® Hybrid PUR cables. These innovative cables now allow machine end-users, OEM machine builders, and drive system manufacturers to combine the existing power and feedback cables into a single cable in order to connect the frequency inverter to the motor’s feedback system.

HELUKABEL®’s latest product offering is designed to combine the existing structure of power conductors and break pairs with an encoder cable element. Working alongside encoder industry and drive manufacturing engineers, HELUKABEL®’s cable development team created a revolutionary cable design that replaces one of the traditional brake pairs with an encoder cable. The encoder element serves as the central communication interface between the frequency inverter and the motor-feedback system. The use of an encoder cable allows for enhanced transmission of motor position data and feedback, such as operating temperature.

“By adding the encoder cable element to the existing servo power cable structure, the single cable becomes slightly thicker. However, the new cable’s mechanical and electrical properties remain the same, which prevents the disruption of data or power transmission caused by any electromagnetic interference or ‘cross talk,’ says Thomas Pikkemaat, key account manager – drive technology. “Given that this encoder technology is still relatively new, the TOPSERV® Hybrid PVC and TOPSERV® Hybrid PUR cables will be produced to meet each customer’s specific set of operating criteria, such as the drive manufacturer chosen, fixed or flexing application, country-specific approvals, etc.”

Combining both the power and data transmission elements into one cable allows HELUKABEL® to minimize the amount of cabling used, which reduces installation/maintenance time and lowers the overall costs for machine end-users, OEM machine builders, and drive system manufacturers.

“This cutting-edge, cable technology solution is a great addition to our already outstanding portfolio of motor cables and we look forward to assisting customers interested in converting over to the one cable technology for servo motors,” Pikkemaat continued.

For more information on the TOPSERV® Hybrid PVC and TOPSERV® Hybrid PUR cables, please contact HELUKABEL® USA at 847-930-5118 or sales@helukabel.com.

About TOPSERV® Hybrid PVC and PUR Cables

The TOPSERV® Hybrid family contains four power conductors plus two additional pairs – one brake and one encoder. The cables are available in PVC or PUR outer jackets for flexible or high flex applications, respectively, and have been tested to withstand greater than five million cycles of alternating bending stress. The TOPSERV® Hybrid cables are UL rated to carry up to 1000V of current. In addition, the cables are oil resistant, flame retardant, halogen free (LSZH), and are UL, CSA, CE, and RoHS approved.

About HELUKABEL® USA

Established in 2007, HELUKABEL® USA is the North American headquarters for Germany-based, HELUKABEL®. With over 30 years of industry experience, HELUKABEL® is one of the most successful companies in the field of cable and wire, specialty cable, and cable accessories. HELUKABEL® employs approximately 800 people worldwide and markets its portfolio of cables and wires to companies around the globe.

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