

Lutze – Application - AGVs for High-density Parking Systems

Rugged servo motor cable assemblies from LUTZE are used to provide motor control to direct the movement of PARKPLUS Automated Guided Vehicles (AGVs) in their Automated Parking Systems. In addition, LUTZE LOCC-Box electronic circuit protection devices are used to provide reliable and accurate control circuit protection and eliminate nuisance tripping with remote functionality.

PROBLEM:

Sourcing Reliable Servo Motor & Encoder Feedback Cable Assemblies

PARKPLUS needed flexible cable assemblies that are reliable enough to withstand the rigors of frequent movement and flexing in the Automated Guided Vehicles (AGVs) used to transport cars in their High-Density Automated Parking Systems. Servo motor cable assemblies were needed for the servo controller to direct the movement of the AGV – forward, reverse, sideways or at any angle. Encoder feedback cable assemblies were also required for the motor encoders to provide accurate closed loop feedback to the main control system for movements requiring high precision and accuracy. PARKPLUS initially made these assemblies in-house, but they soon realized they needed greater reliability and turned to specialized manufacturers to meet this need.

SOLUTION:

LUTZE SUPERFLEX® Plus Servo Motor and Encoder Feedback Cable Assemblies

PARKPLUS chose to use LUTZE cable assemblies to meet these requirements. LUTZE SUPERFLEX® Plus servo motor cable assemblies and LUTZE SUPERFLEX® Plus encoder feedback assemblies were a perfect fit for PARKPLUS. The rugged cable jackets on these assemblies are abrasion resistant, flame retardant and are resistant to petroleum products, lubricants and solvents. They are also resistant to UV and ozone, weather, salt water, rot, microbes and hydrolysis. These features make LUTZE cable assemblies ideally suited for the rough operating conditions of PARKPLUS AGVs. LUTZE provides quality products, which is key for continuous operation of PARKPLUS AGVs. The assemblies are tested to meet or exceed performance specifications and applicable industry standards.

