

E-Line TBE Multiconductor Trolley Busbar System (Shrouded)

Product Features

- Shrouded, touch-safe insulated housing with copper conductors for reliable current transfer
- 4-pole or 5-pole configurations (with PE) to carry power and controls on the same run
- Mix straight and curved sections; quick-lock joints with joint covers for fast installation
- End-feed or mid-feed boxes; multi-feed layouts for long lines and balanced voltage drop
- Single/double carbon-brush collector trolleys with robust towing arms and easy-change shoes
- Expansion elements and sliding joints to manage thermal movement
- Indoor and outdoor variants with UV-stabilized housing and corrosion-resistant hardware
- Compact hanger clamps compatible with I-beams, C-channels/strut, and custom suspensions
- Low-maintenance operation thanks to self-wiping collectors and finger-safe design
- Ideal for overhead cranes, hoists, monorails, conveyors, AS/RS and transfer lines

Product Description

E-Line TBE is a modular shrouded conductor-rail (trolley busbar) system that provides safe, continuous power to moving equipment. Its insulated carrier, tin-plated copper bars, and self-cleaning carbon collectors deliver stable current pickup with minimal maintenance. Designers can combine straight and curved rails, place feeds wherever needed, and accommodate temperature-driven expansion using dedicated modules. Available in 4- or 5-pole layouts (including a protective earth), TBE keeps power and control neatly on the same track—perfect for cranes, monorails, and automated handling in demanding industrial environments.

Product Specifications

System type:	Shrouded multiconductor conductor-rail (trolley busbar)
Rated current:	Series-dependent (select by conductor cross-section, duty cycle, ambient)
Poles:	4 or 5 (with PE)
Conductors:	Copper, typically tin-plated for low contact resistance
Housing:	Rigid, self-extinguishing PVC carrier with open collector slot; indoor/outdoor variants
Protection:	Touch-safe shrouded profile; splash/dust-resistant design
Feed options:	End-feed or mid-feed boxes; multi-feed for long runs
Collector trolleys:	Single/double carbon-brush types; flexible towing arms; quick shoe replacement
Rail sections:	Straight and curved pieces; quick-lock mechanical joints with joint covers
Thermal management:	Expansion modules/slots for temperature-driven elongation
Suspension:	Hanger clamps/brackets for I-beams, strut/channel, and custom supports (typical)
Operating temperature:	Approx. -20 °C to +55 °C (installation and load dependent)
Accessories:	End caps, joint kits, inspection covers, phase markers, anti-derail guides, alignment
Applications:	Overhead cranes, hoists, monorails, conveyors, AS/RS and transfer lines in industrial
Selection notes:	Choose pole count, conductor size, and feed locations based on current, voltage