

E-Line TBX-S Multiconductor Trolley Busbar System (Shrouded, Series-Dependent A)

Product Features

- Shrouded, touch-safe PVC housing with tin-plated copper conductors for reliable current transfer
- 4-pole or 5-pole configurations (with integrated PE) to carry power and controls on the same run
- Straight and curved sections with quick-lock joints, joint covers, and thermal-expansion elements
- End-feed or mid-feed boxes; multi-feed capability for long lines and balanced voltage drop
- Carbon-brush collector trolleys (single or double) with robust towing arms for smooth travel
- Indoor/outdoor variants using UV-stabilized housing and corrosion-resistant mounting hardware
- Compact hanger clamps compatible with I-beams, C-channels/strut, and custom suspension frames
- Low maintenance: self-wiping collectors, finger-safe design, easy inspection and segment replacement
- Ideal for overhead cranes, hoists, monorails, conveyors, AS/RS and transfer lines

Product Description

E-Line TBX-S is a modular shrouded conductor-rail (trolley busbar) system designed to deliver safe, continuous power to moving machinery. Its insulated carrier with tin-plated copper bars and self-cleaning carbon-brush collectors ensures stable current pickup with minimal maintenance. Mix straight and curved sections, place feeds where you need them, and manage thermal movement with dedicated expansion modules. With 4- or 5-pole layouts (including a protective earth), TBX-S neatly routes power and controls along 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 duty cycle, conductor cross-section, and 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 and UV-stabilized
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
Sections:	Straight and curved rails; 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 temp.:	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 per current, voltage drop