

Flexicon Rolling stock

Flexicon Infrastructure

Station Area Requirements:

- Vandal resistance
- High IP ratings for external and exposed areas
- Aesthetics in passenger facing areas
- Enhanced Low Fire Hazard performance in Metro and heavily enclosed platform and passenger areas

Typical Applications & Products:

Passenger information & security systems

LFHUBRD - Stainless steel (316) over braided coated helically wound galvanised steel conduit with extra low fire hazard polyolefin jacket

- Excellent extra low fire hazard and halogen free properties
- UL 94 V0 Flame retardancy
- Highly flexible
- High abrasion resistance
- High mechanical strength
- Provides high EMC screening
- UV resistant
- Very high tensile strength
- Vandal/tamper resistant

Power & Data cabling routing

FPAS - Standard weight nylon PA6 conduit

- Highly flexible & high fatigue life
- High impact strength and recovers if crushed
- High tensile strength
- Resistance to solvents & oils
- UV resistant
- High ingress protection IP

Lighting

LTPBRD - Stainless steel (316) over braided Liquid tight covered steel, smooth thermoplastic rubber coated

- Highly flexible & high fatigue life
- High abrasion resistance
- Resistance to solvents & oils
- UV resistant
- Very high tensile strength
- Vandal/tamper resistant

Exterior Vehicle Requirements:

- High impact resistance to ballast and abrasion
- High tensile strengths
- High vibration resistance
- High resistance to oil and chemicals
- High Ingress protection (IP)
- Resistance to UV
- EMI Screening

Typical Applications:

- Pantographs
- Inter-car jumpers
- Auto-coupler systems
- Wiring Harnesses
- TPWS (Train Protection Warning Systems)
- Vehicle rafts (Static Invertors, Fire Protection)
- Braking systems
- Wheel slippage monitoring
- Rail sanding monitoring systems

Typical Products:

Inter-vehicle Jumper Applications - Dynamic

- FPIH - Heavyweight nylon PA12 conduit
- Highly flexible & high fatigue life
- Resistance to impact

- High tensile strength
- Resistance to solvents & oils
- UV resistant
- Low fire hazard

Exterior vehicle applications - Static

- FPAH - Heavyweight nylon PA6 conduit
- High mechanical & tensile strength
- High impact resistance

- Resistance to solvents & oils
- UV resistant
- High ingress protection
- Halogen, sulphur & phosphorous free
- UL 94 V2 Flame retardancy



Trackside Area Requirements:

- Ballast impact and vibration protection.
- Ingress protection - Possible exposure to submersion
- Resistance to oils and chemicals
- UV protection

Typical Applications:

- Points Machines
- TPWS (Train Protection Warning Systems)
- Power Cable Routes
- Telecom and Data termination units
- DOO (Driver Operated Only) systems

Typical Products:

Trackside
FPAH - Heavyweight nylon PA6 conduit

- High mechanical & tensile strength
- High impact resistance
- Resistance to solvents & oils
- UV resistant
- High ingress protection
- Halogen, sulphur & phosphorous free
- UL 94 V2 Flame retardancy

Tunnel Requirements:

- Enhanced fire protection properties

Typical Applications:

- Fire Detection Systems
- Ventilation Equipment
- Tunnel Lighting
- Tunnel Pumping Equipment
- CCTV systems
- Tunnel signals & Telecom systems

Typical Products:

- LFHU - galvanised steel conduit with extra low fire hazard polyolefin jacket
- Excellent extra low fire hazard and halogen free properties
- UL 94 V0 Flame retardancy
- High abrasion resistance
- High mechanical strength
- Provides high EMC screening

Rail Carriage Requirements:

- Low weight
- Range of fittings and accessories
- EMI screening

Typical Applications:

- Vehicle wiring looms and harnesses
- Passenger Information Systems
- CCTV
- Heating Ventilation & Air conditioning
- Lighting

Typical Products:

Vehicle Interior applications

FPR - Highly flame retardant standard weight nylon PA6 conduit

- Excellent extra low fire hazard and halogen free properties
- Highly flexible and High fatigue life

- UL 94 V0 Flame retardancy
- High tensile strength
- Resistance to solvents & oils
- UV resistant

