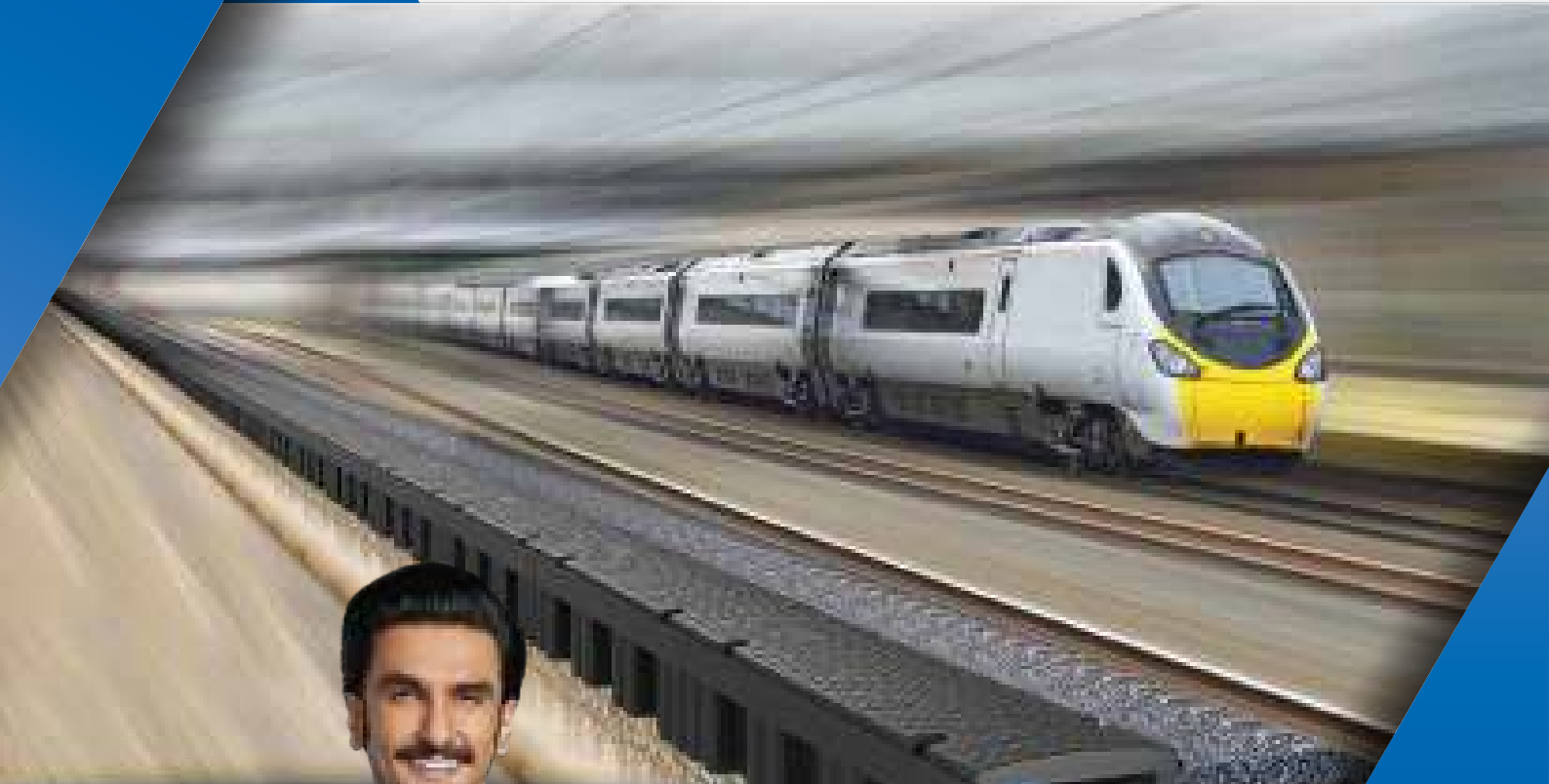


CELEBRATING
25 YEARS
OF TRUST &
INNOVATION



INFRA
DIVISION

MultiRex[®]



POLYOLEFIN CABLE CHANNEL

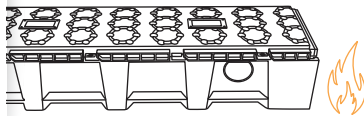
TO PROTECT SIGNAL, POWER
& COMMUNICATION CABLES

ABOUT

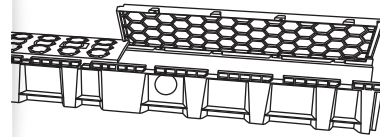
MultiRex Polyolefin Channels can be best suitable for laying all types of Signal / Communication / Power Cables and can be used in restricted as well as unrestricted areas. MultiRex Polyolefin Cable Channel is used for protecting cables against external influences.

By virtue of the material and design incorporated in MultiRex, it has substantial advantages as compared to concrete trenches / channels.

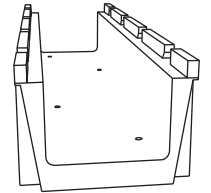
ADVANTAGES & FEATURES



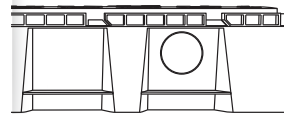
Available with non-flame propagation properties



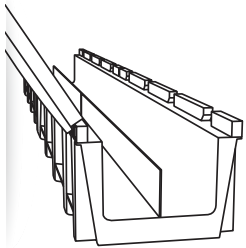
Covers can be opened individually for regular inspection



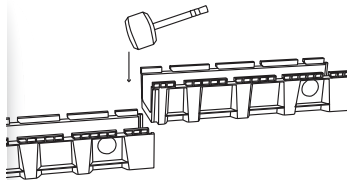
Pinholes provided for seepage of water to the soil and Earthnails are required for fixing the cable trough when they are used on the surface.



Predetermined breaking points for cables in & out of the tray



Separators can be used to segregate different types of cables

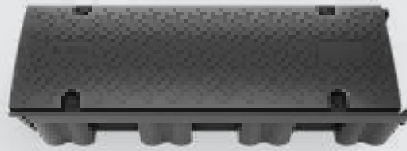


No special tools required for jointing



ADDITIONAL FEATURES

In order to cater to developing India's requirements for Smart Cities, hassle free Tele-Communications, advanced Rail-Air Transport systems, efficient Power Stations and various smart infrastructure projects, Astral has come up with advanced version of Polyolefin cable channels. The refined version has following features along with advantages of predecessor version of Polyolefin cable channel.



New and refined design



Better dissipation of heat



Covers with lock-key mechanism, ensuring better safety

AVAILABLE TYPES

PUSH FIT

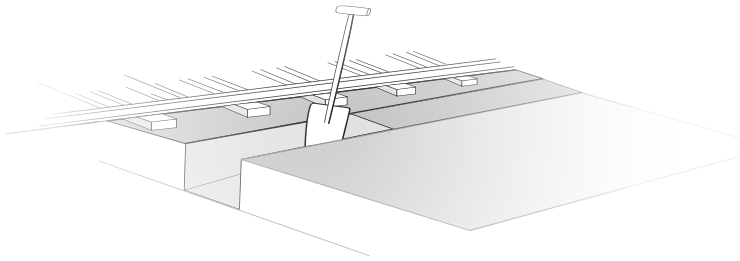


SLIDE FIT



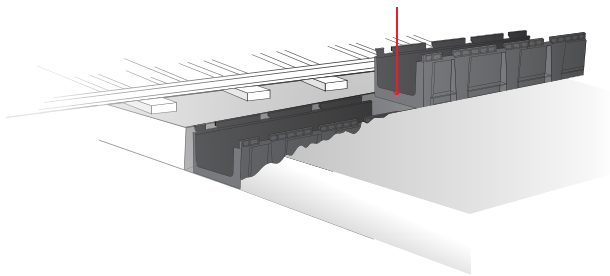
WHY ASTRAL MULTIREX

- ▶ Adequate temperature tolerance range (-10° C to 70° C)
- ▶ Better dissipation of heat generated in power cables
- ▶ Also available with Anti-Rodent properties upon requirement
- ▶ Resistant to environmental changes
- ▶ Chemically inert
- ▶ Very High Mechanical Strength (≥ 15 kN)
- ▶ Made from Polyolefin
- ▶ Available with Low Smoke Property
- ▶ Cables are lowered in the trench, not pulled that protects the cables from the damage



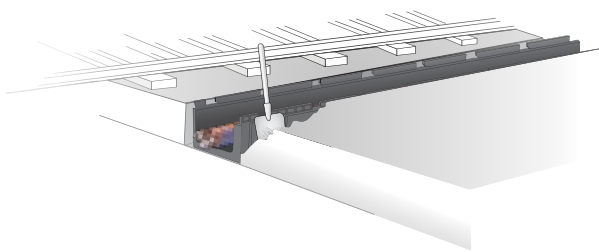
1. Dig the cable trench

The excavation of the trench to be completed before installation of the MultiRex cable channel. In the case of hard or rocky soil areas, it is desirable to make a soil bed of 5.0 - 7.0 cm to get rid of sharp stones. The depth of the trenched area will be as per the field requirements. The minimum depth of application should be 80.0 cm. to avoid direct vehicular load or dynamic load over the channels.



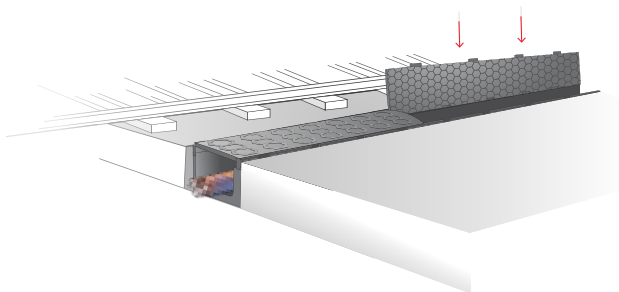
2. Insert the channel by pushing together the swallowtail connection

After completing the trench, laying of channels should be done by swallowtail connection in a sequence. In case of a diversion, proper care to be taken by smoothly forming a curve with the same cable channels. After successful installation of MultiRex channels, backfilling and compaction of soil should be done.



3. Fill up the channel with grit

After the successful laying of the cables, MultiRex lids are to be installed over the MultiRex channels. For the installation of lids over the channels, lids to be placed over the channel matching its external ribs into slots of channels and can be installed in two ways i.e. Slide fit or Push fit with locking mechanism. Backfilling of soil is to be done to cover the side trench area completely.



4. Place lid over the channel to lock

The ends of the MultiRex covers overlap, making a firm joint to avoid entry of soil into a channel. Also, it makes possible to access individual channel by opening the lid, without disturbing other lids.

TECHNICAL SPECIFICATIONS

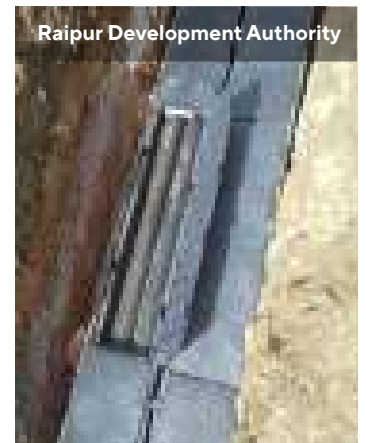
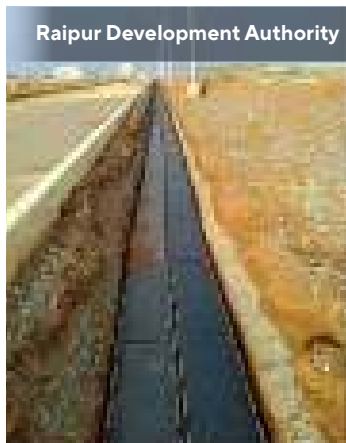
PROPERTIES	UNIT / REQUIREMENTS
Length	▶ 1000mm (appx.)
Width (Int. / Ext.) (mm)	▶ 240mm / 340mm
Height (Int. / Ext.) (mm)	▶ 155mm / 230mm
Material	▶ Polyolefin
Min. Weight	▶ 8.00 kg
Tolerance in Dimensions	▶ ± 10 mm as per RDSO guideline
Fire Behavior	▶ Conforms to Fire Protection Class K1 in accordance with DIN 53438 (Part-2)
Mechanical Characteristics	▶ Load Bearing Capacity: ≥15 kN
Electrical Characteristics	▶ Dielectric strength: 48 kV (Min. Breakdown Voltage as per IEC 60243-1)
Thermal Characteristics	▶ Continuous thermal stability from - 10° C to 70° C as per RDSO guideline
Anti Rodent Properties	▶ Available
Low Smoke Properties	▶ Available
Locking Method	▶ Lock Key Mechanism - Push Fit & Slide Fit

SPECIFICATIONS FOR TENDERS

Supply of Polyolefin Injection-molded cable channel of size width (int. / ext.) 240 / 340mm, height (int. / ext.) 155mm / 230mm, length 1 meter (tolerance in dimensions +/-10mm) min weight per meter-8kg (top and bottom), fire protection class K1 in accordance with DIN 53438 Part-2, Load bearing strength (minimum) - ≥15 kN at room temperature, channel attachable to each other with male-female swallowtail connectors and having suitable detachable cover.

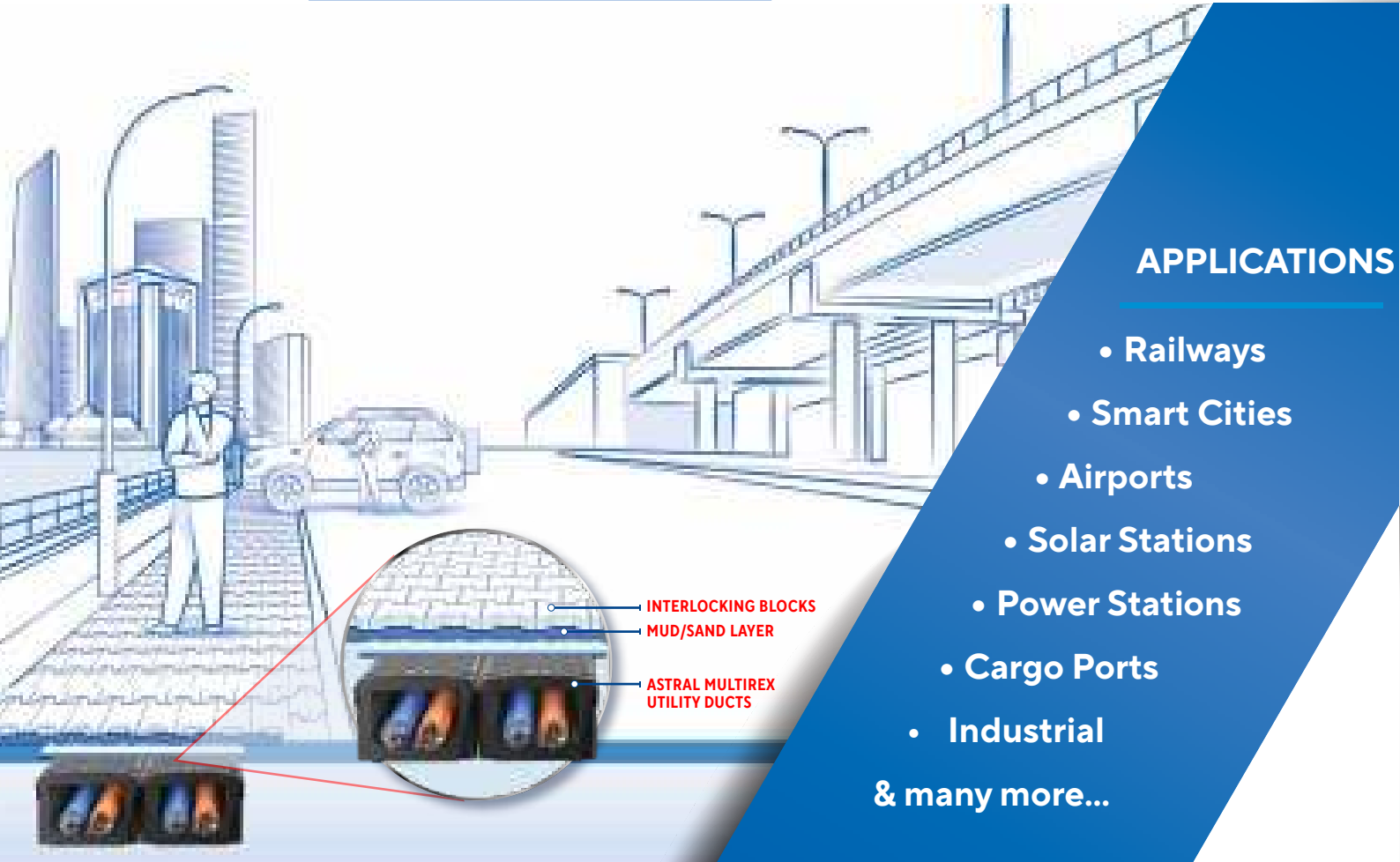
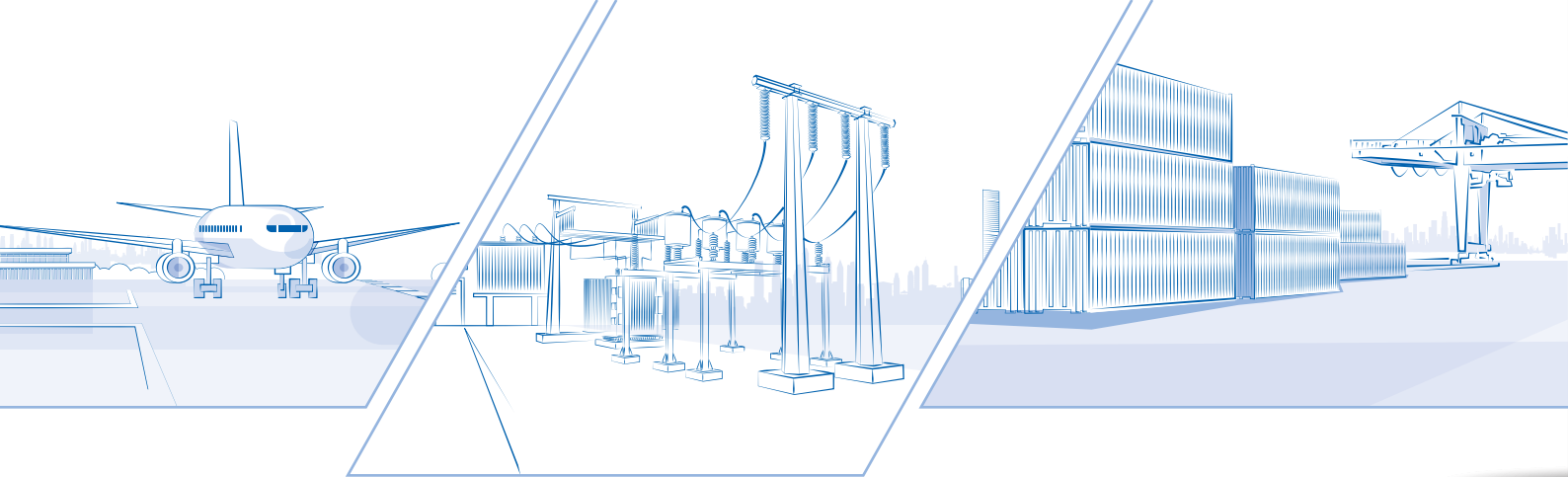
SPECIFICATION FOR RAILWAYS

As per RDSO-Ref No.: STS / Cable- Laying Practices Vol-IV dated 09.05.2018



ADVANTAGES OF POLYOLEFIN CHANNELS OVER CONCRETE TRAYS

- ▶ Polyolefin channels are 10 times lighter than Concrete trays hence lesser transportation and handling cost
- ▶ Chances of breakage during transportation and installation are lesser in Polyolefin channels compared to brittle Concrete trays
- ▶ Polyolefin channels can be joined without any special techniques compared to complex installation process of Concrete trays
- ▶ Astral MultiRex Polyolefin channels come with special arrangement for water discharge where as water clogging in Concrete trays leads to vegetation
- ▶ Astral MultiRex Polyolefin channels are also available as per RDSO specifications hence superior than Concrete trays which are largely manufactured by unorganized sector
- ▶ Astral Multirex channels and lids are available with push-fit/slide-fit and lock-key mechanism which minimizes the misalignment occurring while placing concrete channels in the trench



APPLICATIONS

- Railways
 - Smart Cities
 - Airports
 - Solar Stations
 - Power Stations
 - Cargo Ports
 - Industrial
- & many more...**



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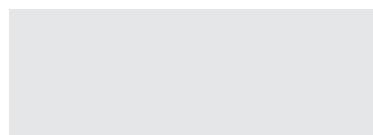
Website: www.astralltd.com

ASTRAL TOLL FREE
1800 233 7957

Please get in touch with us between
10 AM to 6 PM between Monday to Friday
and the last Saturday of the month.
We will remain closed on Public Holidays.



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