



BCP Cable Ladder Tray Systems are designed to meet most requirements of cable and electrical wire installations and comply to local and international standards of fabrication and finishing. Cable Ladder Systems are economical wire and cable management systems designed to support and protect electrical wires and cables.

Cable Ladder in a wide variety of indoor and outdoor applications. Cable Ladder Systems can provide significant advantages in cable filling over other wiring methods. This can provide savings in the size or number of raceways required, thereby, reducing both material and labor costs.

Cable Ladder Systems can supply meet with custom request.

TECHNICAL INFORMATION ACCORDING TO IEC 61537 STANDARD

Products covered by this standard are, in normal use, passive in respect of electromagnetic influences, emission and immunity.

NOTE : When products covered by this standard are installed as part of a wiring installation, the installation may be influenced by electromagnetic signals. The degree of influence will depend on the nature of the installation within its operating environment and the apparatus connected by the wiring.

Power supply cables and signal cables can share the same cable conveyance systems (Trays, Channels, Etc.)

Adequate separation need to be provided (by distance or shielding) between power cables and signal cables. Power cables and signal cables need to be cross at right angles.

In order to prevent disturbances, the minimum separation between power cables and signal cables depends on many factors, such as following :

- a) The level of immunity from the various electromagnetic interference (surge, overcurrents, lightning impulses, ring waves. Continuous waves, etc) of the equipment connected to the signal cabling system.
- b) The connection of the equipment to the grounding system.
- c) The local electromagnetic environment (the simultaneous appearance of disturbances : for example, harmonics added to discharges and to continuous waves)
- d) The electromagnetic spectrum
- e) The distances that the cables run parallel to each other (the coupling zone)
- f) The kind of cable
- g) Cable attenuation against coupling
- h) The quality of the connections between the connectors and the cable
- i) The type of cable conveyance system and its accessories

Type of installation	Distance		
	Without a dividing wall or with a non metal divider (1)	Aluminium divider	steel divider
Unshielded power cable and Unshielded signal cable	200 mm	100 mm	50 mm
Unshielded power cable and Shielded signal cable (2)	50 mm	20 mm	5 mm
Shielded power cable and Unshielded signal cable	30 mm	10 mm	2 mm
Shielded power cable and Shielded signal cable	0 mm	0 mm	0 mm

- 1) It is assumed that in the event of a metal divider, the design of the cable conveyance system will provide shielding attenuation that is approximate to the material used in the divider.
- 2) Shielded signal cables have to be comply with the EN 50288 series.

Metal systems for cable conveyance : trays, channels, etc.

Metal system for cable conveyance should always be connections to the ground systems are recommended at irregular intervals. All ground should be as short as possible.

Ground and equipotential connections

Overview the basic purpose of connection and grounding applicable to unshielded and shielded wiring systems are as follow :

- **Safety** : to limit contact voltage and provide a return path in the event of a fault to ground;
- **EMC** : to have zero potential and equipotentiality, which provide a shielding effect.



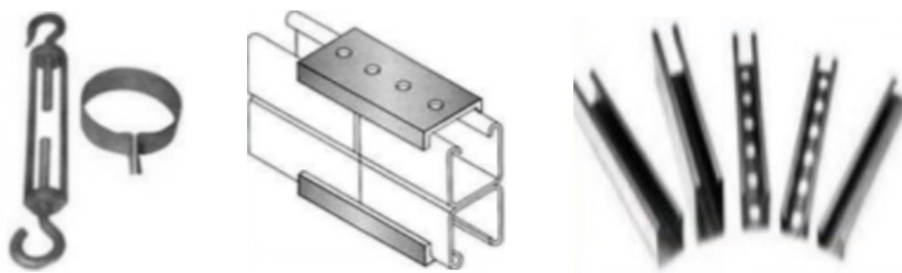
Cable Tray & Ladder

- Perforated cable tray
- Metal Cable Duct
- Cable Ladder
- Cable tray Accessories
- Flooring Raceway & Tunking



Cable Tray & Ladder Support

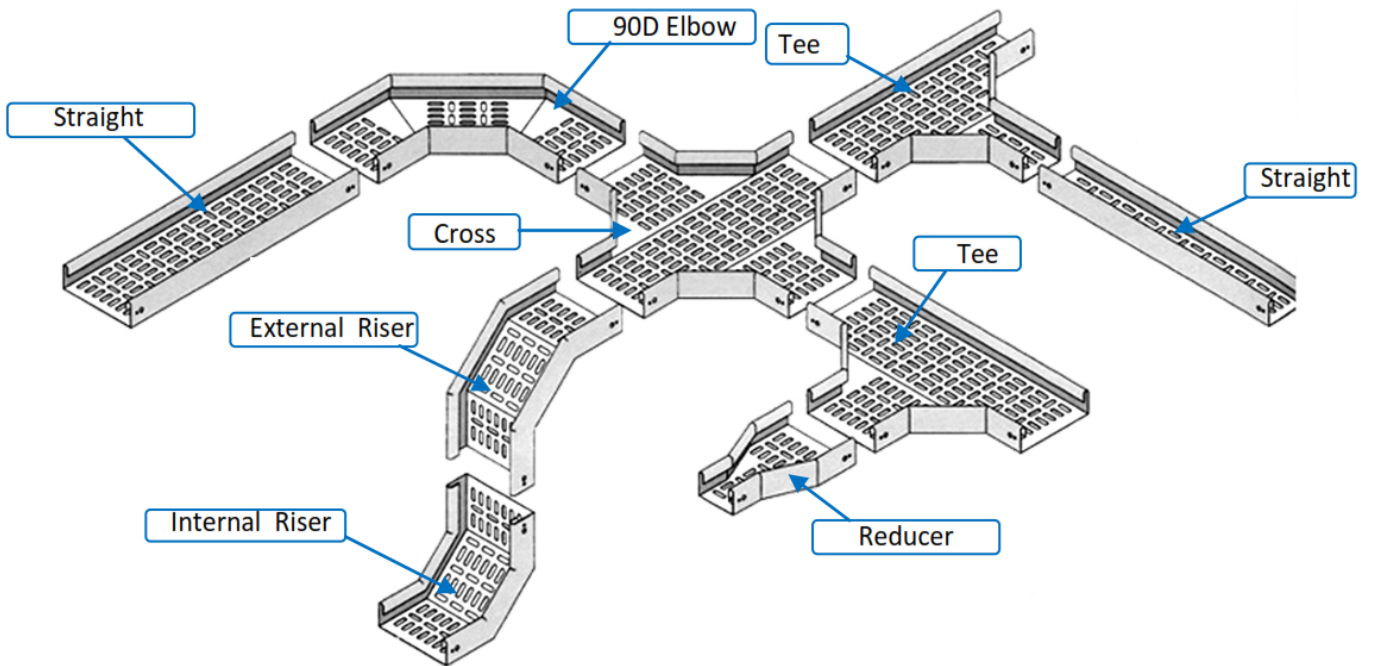
- Clamp
- Utility Channel
- Anchor Fastener
- Slotted C Channel
- Threaded Steel Rod



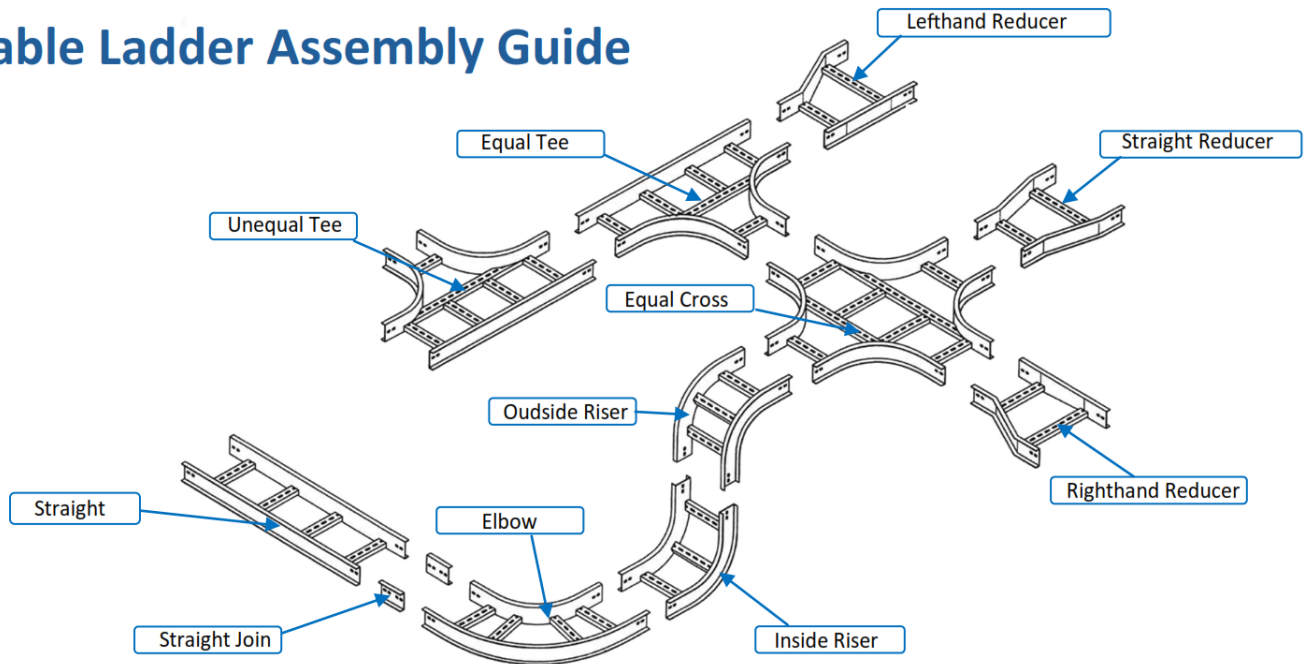
Cable Tray & Ladder Accessories



Cable Tray Assembly Guide



Cable Ladder Assembly Guide





Succses Story

NO	Project Name	Customer	Market Application
1	Motor Starter Panel & Receptacle Panel Project	PT. CIREBON ENERGI PRASARANA	Utility Plant
2	Project Freeport	PT. Lintech	Mining

Address :

Assembly Factory:
Kawasan Industri Greenland I
Jl. Greenland IV Blok AC No. 07 kota Deltamas
Cikarang Pusat, Bekasi-Indonesia 17530

Sheet Metal Factory:
Kawasan Delta Silicon 3
Jl. Rotan I Blok F27 NO. 20D Lippo Cikarang
Cikarang Pusat - Bekasi 17530

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