PRISMA

Cable Management System

Cable Trays, Cable Ladders, Cable Trunkings & Floor Trunkings.....

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Introduction

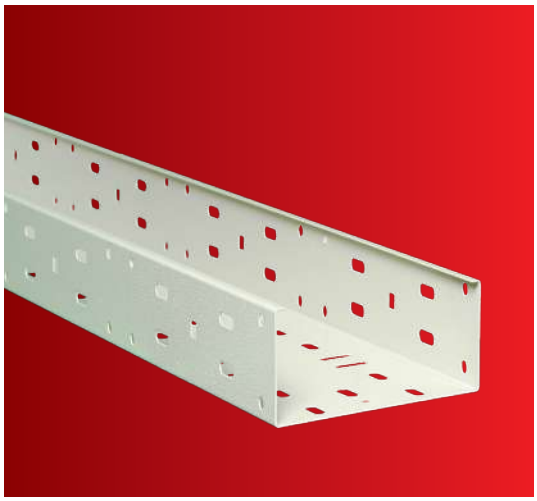
Cable Management System is an important part of all types of installations including electrical, telecommunication, data, BMS, ELV, fire protection, security systems etc. Cable Management Systems are installed in commercial buildings, factories, hospitals, banks, hotels & many other places to manage cabling system.

PRISMA Cable Management System consists of Cable Trays, Cable Ladders, Cable Trunkings & Floor Trunkings and related accessories. This caters all needs for total solution in cable installations.

PRISMA Cable Management System with it's wide range of accessories enable; users to install complete cable management system faster, easier and low cost. It has wide range of accessories to make it user-friendly and technically fulfil all requirements of a cable management system.

PRISMA Cable Management System can fix as cantilever or hanging methods; which can use as per location to install space saving, neat and professional installation. PRISMA Cable Management system design & manufacture according to International standards to ensure the safety, quality & durability for customer investment.

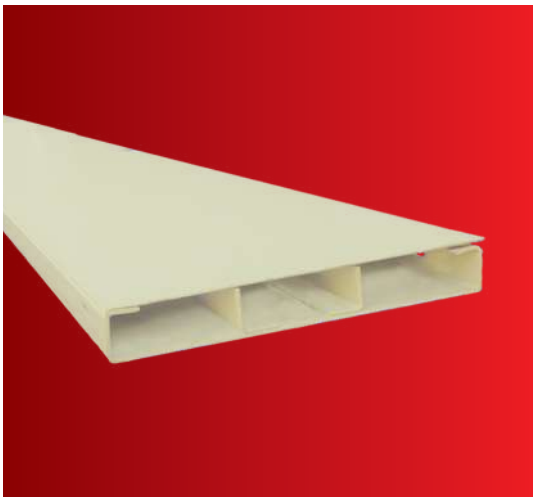
Prisma Cable Management products are made of Electro Galvanized (EG) steel. It also available in Hot Dipped Galvanized Alloy (HDGA), Zinc Alumi (Alu-Zinc), Aluminum Alloy (AA) and Stainless Steel.



Cable Trays

Cable Ladders

Cable Trunkings



Floor Trunkings

Introduction

Perforated Cable Trays are used for cable installations including electrical, ELV (telecommunication & data), BMS, fire protection, security systems etc. Perforations are to enhance the air movement to increase the current carrying capacity of cables and also for tie up the cables to the cable tray.

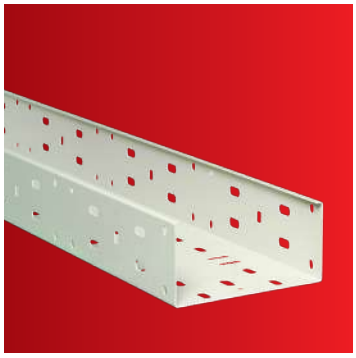
PRISMA Cable Trays are designed as per international standards & slot patterns are designed as per industry standards for to easy installation of cables.

PRISMA Cable Tray System can fix as cantilever or hanging methods: which can select as per location. All accessories come with appropriate fasteners to firmly fix on to trays to ensure a quality & faster installation.

PRISMA comes with three type of Cable Tray Covers to give better protection for the cables installed.

PRISMA has range of well designed Cable Tray accessories to cater installation requirements as per site conditions. It has provisions to accommodate any type of wiring accessories for neat & professional installion.

PRISMA cable trays are made out of different materials and Epoxy Polyester powder coated in fine texture finish. Other materials, colors & finishes are available on request.

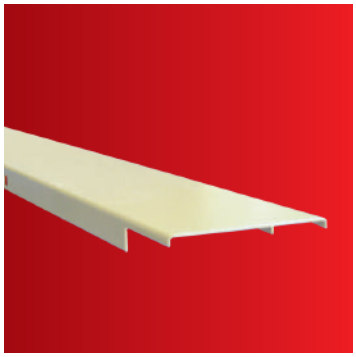


Cable Tray- Standard

Part No	Tray Width	Flange Height	Thickness	Weight
CT-SR-100-50	100	50	1.0	2.12
CT-SR-150-50	150	50	1.0	2.61
CT-SR-225-50	225	50	1.2	4.00
CT-SR-300-50	300	50	1.2	4.88
CT-SR-450-50	450	50	1.5	8.29
CT-SR-600-50	600	50	1.5	10.50
CT-SR-750-50	750	50	2.0	16.94
CT-SR-900-50	900	50	2.0	19.95
CT-SR-100-75	100	75	1.2	3.11
CT-SR-150-75	150	75	1.2	3.70
CT-SR-225-75	225	75	1.2	4.59
CT-SR-300-75	300	75	1.5	6.84
CT-SR-450-75	450	75	2.0	12.22
CT-SR-600-75	600	75	2.0	15.16
CT-SR-750-75	750	75	2.0	18.10
CT-SR-900-75	900	75	2.0	21.05

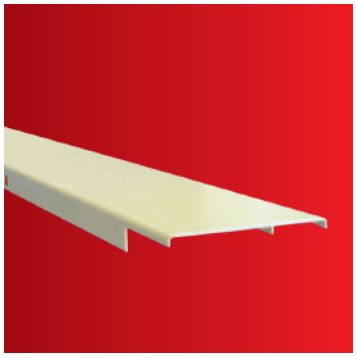
Cable Tray- Green

Part No	Tray Width	Flange Height	Thickness	Weight
CT-GR-100-50	100	50	1.0/1.2/1.5	1.57/1.88/2.36
CT-GR-200-50	200	50	1.0/1.2/1.5	2.36/2.83/3.53
CT-GR-300-50	300	50	1.0/1.2/1.5	3.14/3.77/4.71
CT-GR-400-50	400	50	1.5	5.89
CT-GR-500-50	500	50	1.5	7.07
CT-GR-600-50	600	50	1.5	8.24
CT-GR-150-75	150	75	1.2/1.5	2.83/3.53
CT-GR-300-75	300	75	1.2/1.5	4.24/5.30
CT-GR-450-75	450	75	1.5	7.07
CT-GR-600-75	600	75	1.5	8.83



Tray Lid - Standard

Part No	Tray Width	Flange Height	Thickness	Weight
CT-SR-CVS-100	100	15	1.0	1.63
CT-SR-CVS-150	150	15	1.0	2.81
CT-SR-CVS-225	225	15	1.0	3.69
CT-SR-CVS-300	300	15	1.0	3.98
CT-SR-CVS-450	450	15	1.2	5.75
CT-SR-CVS-600	600	15	1.2	7.52
CT-SR-CVS-750	750	15	1.2	9.28
CT-SR-CVS-900	900	15	1.2	11.05

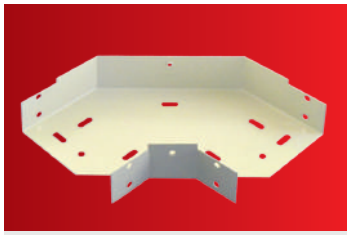


Tray Lid -Green

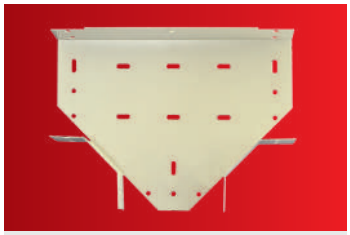
Part No	Tray Width	Flange Height	Thickness	Weight
CT-GR-CVS-100	100	15	1.0	1.18
CT-GR-CVS-150	150	15	1.0	1.57
CT-GR-CVS-200	200	15	1.0	1.96
CT-GR-CVS-300	300	15	1.0	2.75
CT-SR-CVS-400	400	15	1.2	4.51
CT-GR-CVS-450	450	15	1.2	5.75
CT-GR-CVS-500	500	15	1.2	5.18
CT-GR-CVS-600	600	15	1.2	6.12

Accessories

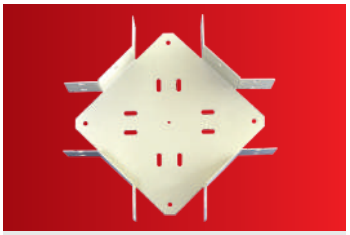
Coupler



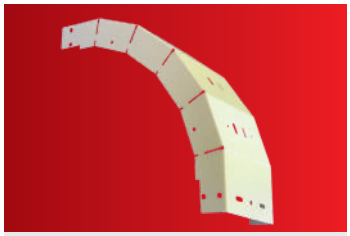
Flat 90° Bend



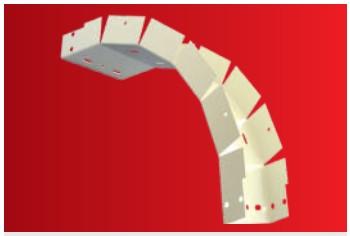
Flat Equal Tee



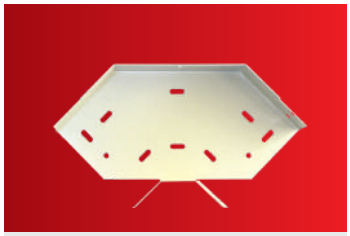
Flat 4way Intersection



Internal 90° Riser Bend



External 90° Riser Bend



Flat 45° Bend

Stop End

Introduction

Cable Ladders are used for cable installations including electrical, ELV (telecommunication & data), BMS, fire protection, security systems etc. Perforations on cross profiles & side profiles to tie up the cables to the cable ladders.

PRISMA Cable Ladders are designed as per international standards & rungs spacing are designed as per industry standards for proper installation of cables.

PRISMA Cable Ladder System can fix as cantilever or hanging methods: which can select as per location. All accessories come with appropriate fasteners to firmly fix on to ladders to ensure a quality & faster installation.

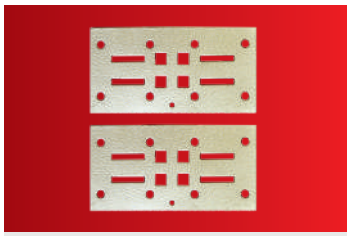
PRISMA has range of well designed Cable ladder accessories to cater installation requirements as per site conditions. It has provisions to accommodate any type of wiring accessories for neat & professional installation.

PRISMA cable ladders are made out of different materials and Epoxy Polyester powder coated in fine texture finish. Other materials, colors & finishes are available on request.

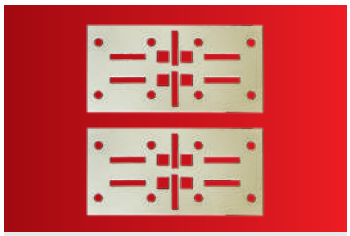
Cable Ladder

Part No	Ladder Width	Flange Height	Thickness	Weight
CL-SR- 150	150	75	1.5	3.85
CL-SR- 300	300	75	1.5	4.40
CL-SR- 450	450	75	2.0	6.57
CL-SR- 600	600	75	2.0	7.30
CL-SR- 750	750	75	2.0	8.03
CL-SR- 900	900	75	2.0	8.75

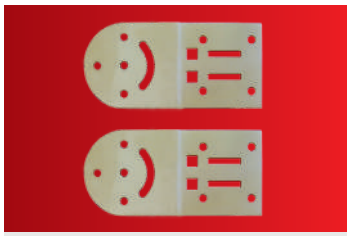
Accessories



Straight Coupler



Horizontal Adjustable Coupler

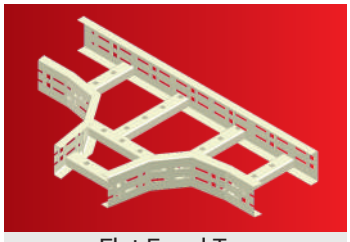


Vertical Adjustable Coupler

Flat 90 Elbow

Inside Riser

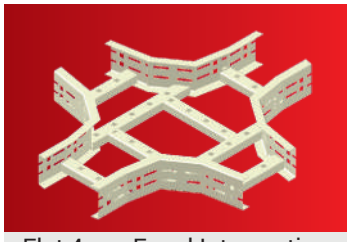
Outside Riser



Flat Equal Tee

Stop End

Flat 45 Elbow



Flat 4way Equal Intersection

Cantilever Support - General Duty

Part No	Tray/Ladder Width	Dimensions	Thickness	Weight
CT-SR-CSGD-100	100	35x40	1.5	0.30
CT-SR-CSGD-150	150	35x40	1.5	0.39
CT-SR-CSGD-200	200	35x40	1.5	0.47
CT-SR-CSGD-225	225	35x40	1.5	0.51
CT-SR-CSGD-300	300	35x40	1.5	0.64
CT-SR-CSGD-400	400	35x40	1.5	1.04
CT-SR-CSGD-450	450	35x40	1.5	1.13
CT-SR-CSGD-500	500	35x40	2.0	1.26
CT-SR-CSGD-600	600	35x40	2.0	1.46
CT-SR-CSGD-750	750	35x40	2.0	1.79
CT-SR-CSGD-900	900	35x40	2.0	2.12

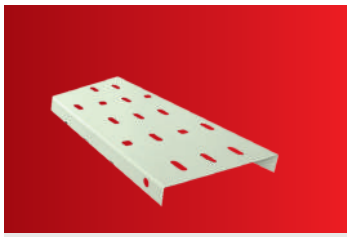
Hanger Support - General Duty

Part No	Tray/Ladder Width	Dimensions	Thickness	Weight
CT-SR-HSGD-100	100	35x40	1.5	0.30
CT-SR-HSGD-150	150	35x40	1.5	0.39
CT-SR-HSGD-200	200	35x40	1.5	0.38
CT-SR-HSGD-225	225	35x40	1.5	0.51
CT-SR-HSGD-300	300	35x40	1.5	0.64
CT-SR-HSGD-400	400	35x40	1.5	1.07
CT-SR-HSGD-450	450	35x40	1.5	1.14
CT-SR-HSGD-500	500	35x40	2.0	1.30
CT-SR-HSGD-600	600	35x40	2.0	1.47
CT-SR-HSGD-750	700	35x40	2.0	1.79
CT-SR-HSGD-900	900	35x40	2.0	2.12

Cantilever & Hanger supports are available in heavy duty type too.

Other Accessories

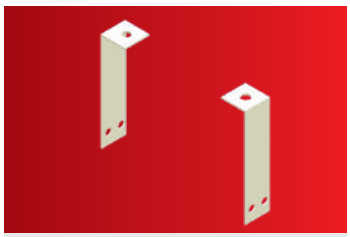
Divider Fillets



Cover - Ventilated

Cover - Canopy

Fixing Bracket



Elevated Cover Bracket

Cantilever Arm Prop

Introduction

Cable Trunkings are used for cable installations including electrical, ELV (telecommunication & data), BMS, fire protection, security systems etc.

PRISMA Cable Trunkings are designed as per international standards to cater different industry requirements.

PRISMA Cable Trunking System can install as wall mount or hanging methods: which can select as per location. PRISMA Cable Trunkings complete with removable lid & range of standard accessories to ensure a quality & faster installation. All accessories come with appropriate fasteners to firmly fix on to trunkings as a complete solution.

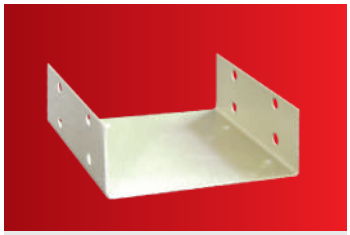
PRISMA has range of well designed Cable Trunking accessories to cater installation requirements as per site conditions.

PRISMA cable trunkings are made out of different materials and Epoxy Polyester powder coated in fine texture finish. Other materials, colors & finishes available on request.

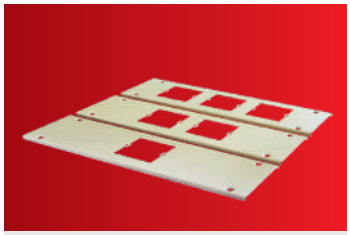
Cable Trunking

Part No	Trunking Width	Flange Height	Thickness	Weight
CTR-SR-50-50	50	50	0.8	1.67
CTR-SR-75-50	75	50	0.8	2.19
CTR-SR-100-50	100	50	0.8	2.45
CTR-SR-100-100	100	100	0.8	3.24

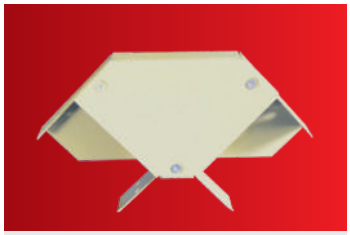
Accessories



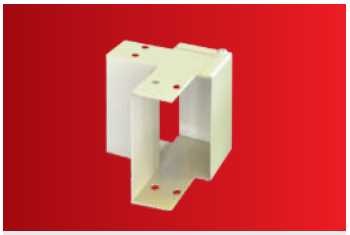
Coupler



Socket Lid

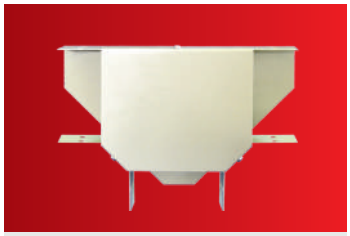


Flat Angle

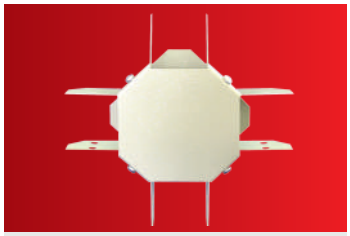


Internal Angle

External Angle



Flat Tee



Flat 4way Equal Intersection

Stop End

Hanger Support

Introduction

Floor Trunking System is designed to be place on concrete slabs, and covered by screed or under the raised floor for cable installations. Floor Trunking System guarantee safe cable routing on the floor and ensure flexibility of movement of outlet locations.

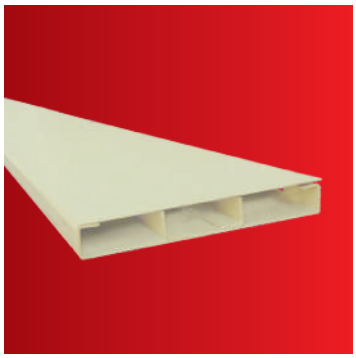
Floor Trunkings are use for cable installations including electrical, ELV(telecommunication & data), BMS, fire protection, security systems etc.

PRISMA Floor Trunkings are designed as per international standards to cater different industry requirements.

PRISMA Floor Trunkings completed with removable lid & range of standard accessories for ensure the quality & faster installation. All accessories comes with appropriate fasteners to firmly fix on to trunking as a complete solution.

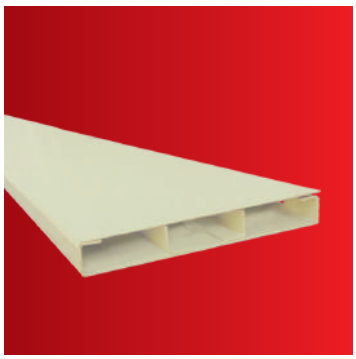
PRISMA has range of well designed Floor Trunking accessories to cater installation requirements as per site conditions.

PRISMA Under Floor Trunkings are made out of Electro Galvanized sheet or HDGA and with higher corrosion resistance.



Under Floor Trunking

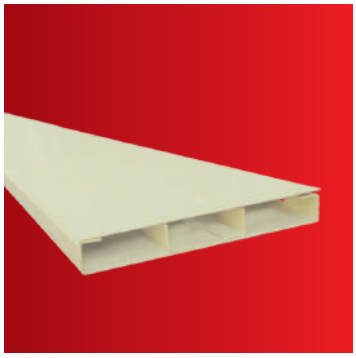
Part No	Trunking Width	Trunking Height	Thickness Base	Thickness Lid	Nos. of Compartment
UFT-1CMPT-100-40	100	40	1.0	1.2	1
UFT-1CMPT-150-40	150	40	1.0	1.2	1
UFT-2CMPT-150-40	150	40	1.0	1.2	2
UFT-3CMPT-150-40	150	40	1.0	1.2	3
UFT-2CMPT-300-40	300	40	1.2	1.5	2
UFT-3CMPT-300-40	300	40	1.2	1.5	3
UFT-2CMPT-450-40	450	40	1.5	2.0	2
UFT-3CMPT-450-40	450	40	1.5	2.0	3
UFT-1CMPT-100-60	100	60	1.0	1.2	1
UFT-1CMPT-150-60	150	60	1.0	1.2	1
UFT-2CMPT-150-60	150	60	1.0	1.2	2
UFT-3CMPT-150-60	150	60	1.0	1.2	3
UFT-2CMPT-300-60	300	60	1.2	1.5	2
UFT-3CMPT-300-60	300	60	1.2	1.5	3
UFT-2CMPT-450-60	450	60	1.5	2.0	2
UFT-3CMPT-450-60	450	60	1.5	2.0	3



Flush Floor Trunking

Part No	Trunking Width	Trunking Height	Thickness Base	Thickness Lid	Nos. of Compartment
FFT-1CMPT-100-40	100	40	1.0	1.0	1
FFT-1CMPT-150-40	150	40	1.0	1.0	1
FFT-2CMPT-150-40	150	40	1.0	1.0	2
FFT-3CMPT-150-40	150	40	1.0	1.0	3
FFT-2CMPT-300-40	300	40	1.2	1.2	2
FFT-3CMPT-300-40	300	40	1.2	1.2	3
FFT-2CMPT-450-40	450	40	1.5	1.5	2
FFT-3CMPT-450-40	450	40	1.5	1.5	3

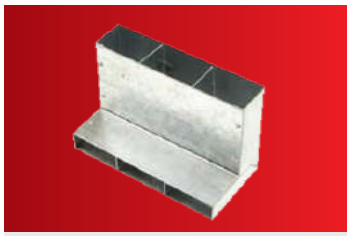
Part No	Trunking Width	Trunking Height	Thickness Base	Thickness Lid	Nos. of Compartment
FFT-1CMPT-100-60	100	60	1.5	2	1
FFT-1CMPT-150-60	150	60	1.5	2	1
FFT-2CMPT-150-60	150	60	1.5	2	2
FFT-3CMPT-150-60	150	60	1.5	2	3
FFT-2CMPT-300-60	300	60	1.5	2	2
FFT-3CMPT-300-60	300	60	1.5	2	3
FFT-2CMPT-450-60	450	60	1.5	2	2
FFT-3CMPT-450-60	450	60	1.5	2	3



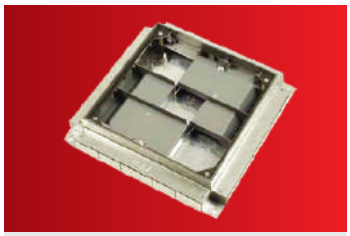
Raised Floor Trunking

Part No	Trunking Width	Trunking Height	Thickness Base	Thickness Lid	Nos. of Compartment
FFT-1CMPT-100-40	100	40	1.0	1.0	1
FFT-1CMPT-150-40	150	40	1.0	1.0	1
FFT-2CMPT-150-40	150	40	1.0	1.0	2
FFT-3CMPT-150-40	150	40	1.0	1.0	3
FFT-2CMPT-300-40	300	40	1.2	1.2	2
FFT-3CMPT-300-40	300	40	1.2	1.2	3
FFT-2CMPT-450-40	450	40	1.5	1.5	2
FFT-3CMPT-450-40	450	40	1.5	1.5	3

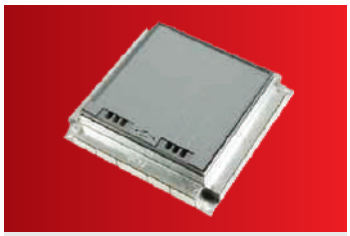
Accessories



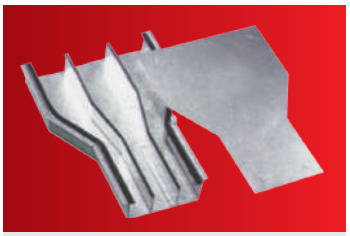
Vertical Access Box



Junction Box



Service Outlet Box



Reducer

Trunking Support Bracket

Floor Trunking Coupler

Applicable Standards

BS EN 61537 - Cable management. Cable tray systems and cable ladder systems

BS 6946 - Specification for metal channel cable support systems for electrical installations.

BS EN ISO 1461 - Hot-dip galvanized coatings on fabricated iron and steel articles.Specifications and test methods

BS 7671 - Requirements for electrical installations. IEE Wiring Regulations. Seventeenth edition.

BS EN 50174-1 - Information technology. Cabling installation. Installation specification and quality assurance.

BS 6701 - Telecommunications equipment and telecommunications cabling. Specification for installation, operation and maintenance.

BS EN 61914 - Cable cleats for electrical installations

Recommended Materials & Type Of Finishes

Material	Finish	Recommeded Use
Electro Galvanized (EG)	Powder Coated	Indoor
Alu- Zinc	Unpainted	Indoor
HDGA (Alternative to HDG)	Powder Coated	Outdoor
Stainless Steel	Unpainted	Indoor/Outdoor

Standard Length : 2.4 Meters

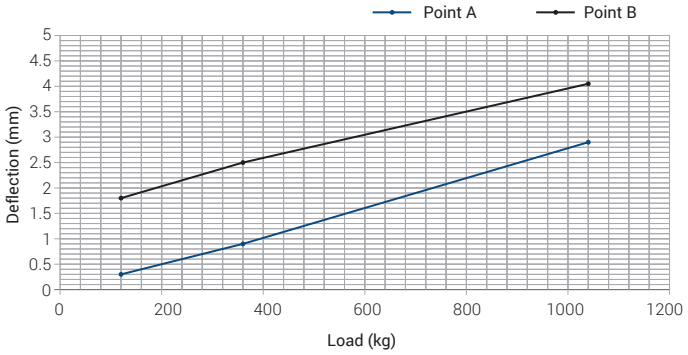
Standard Colours

RAL 7032 | RAL 7035 | RAL 9006 | RAL 9010 | RAL 9005

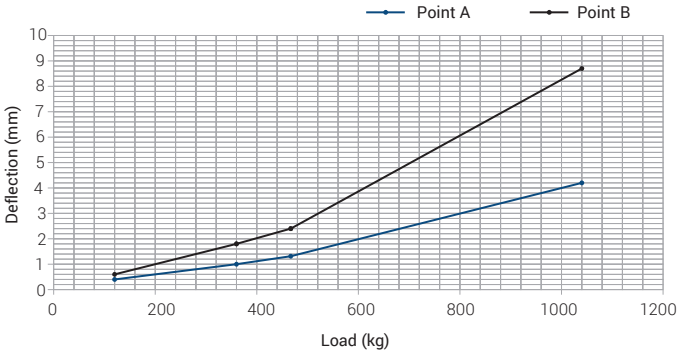
Powder Coating

- Epoxy polyester powder coating
- Semi gloss level 50 - 70%
- Texture finish
- Thickness 60 - 100µm

Load deflection chart - Cable Tray



Load deflection chart - Cable Ladder



Deflection limits

Deflection limits are usually expressed as a proportion of the support span (L) or the product width (W). In most cable management installations , the allowable deflection at safe working load is L/200 for hangers and L/180 for cantilevers, based on design standards.

Cable ladders, cable trays and their supports made to BS EN 61537 are allowed much greater deflections than shown in the graph, so if deflections are different the manufacturer should be consulted to verify what deflections occur at the safe working loads.

Cable ladder and cable tray made to BS EN 61537

At the safe working load, the maximum allowable deflection along the length is L/100, and the maximum allowable deflection across the width is W/20, based on load test measurements.

Supports: Hangers & Cantilevers made to BS EN 61537

At the safe working load the maximum allowable deflection is L/20, based on load test measurements.

Protection of cables

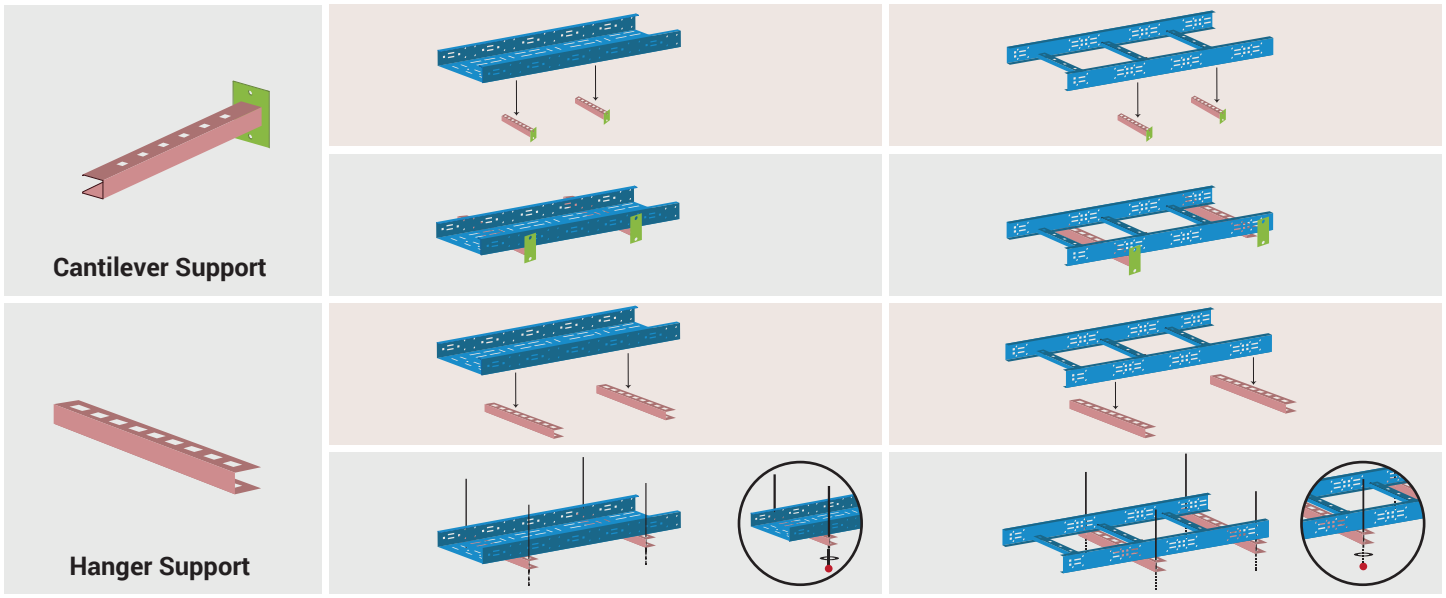
Cable ladder and cable tray systems are designed to provide continuous support to any cables installed upon them. Due to the fact that cable ladders and cable trays are not fully enclosed they do not offer complete mechanical and environmental protection. For this reason unsheathed, single insulated power cables should not be installed on cable ladder and cable tray. Cable installed on cable ladder and cable tray should have some form of mechanical protection in the form of PVC sheathing, steel wire armouring.

Electrical continuity

Steel cable ladder and cable tray systems should have adequate electrical continuity to ensure equipotential bonding and connections to earth. Manufacturers are required by BS EN 61537 to declare whether or not their systems are classified as having electrical continuity characteristics.
Installations shall comply with the requirements of BS 7671 (The Wiring Regulations).

Electro Magnetic Compatibility

Cable ladder and cable tray systems on their own are passive in respect of electromagnetic influences. The installation of current carrying cable however, may cause electromagnetic emissions that may influence information technology cables. As a guide for the installation of IT cables it is recommended that BS EN 50174-2 is consulted.



PRISMA

Cable Management System

Cable Trays, Cable Ladders, Cable Trunkings & Floor Trunkings.....