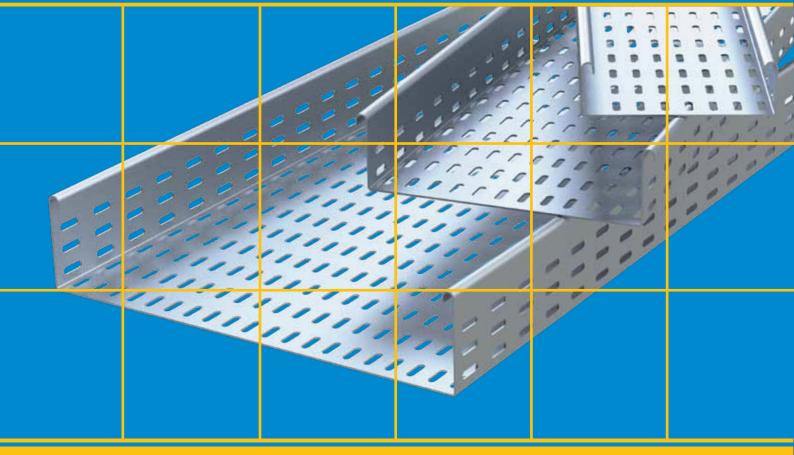
# **Power Solution Industries**

DESIGN, ENGINEERING & MANUFACTURING COMPANY





**PRODUCT CATALOGUE** 





# CONTENTS

MEDIUM DUTY RETURN FLANGE CABLE TRAY SYSTEMS	4
HEAVY DUTY RETURN FLANGE CABLE TRAY SYSTEMS	6
EXTRA HEAVY DUTY RETURN FLANGE CABLE TRAY SYSTEMS	8
DOUBLE EXTRA HEAVY DUTY RETURN FLANGE CABLE TRAY SYSTEMS	10
CABLE TRAY ROUND RADIAL FITTINGS	12
CABLE TRAY COVERS	16
CABLE TRAY ACCESSORIES	18
LOADING GRAPH	20
TECHNICAL DATA	22

**EDITION 2023** 



# Engineered to Excellence



# **BSI KITEMARK CERTIFIED PRODUCTS**

1ST CABLE MANAGEMENT MANUFACTURING COMPANY IN MIDDLE EAST AND AFRICA

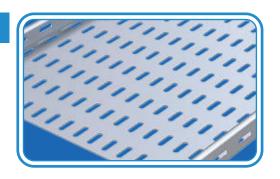
Power Solution Industries quality plan conforms comprehensivily to ISO 9001:2015, ISO 45001: 2018, ISO14001: 2015. The quality assessment and reviews are carried out by DET NORSKE VERITAS. The organization defines its quality objectives at the various levels of the company in order to achieve continual improvement in quality management system.

# CABLE TRAY SYSTEMS - OVERVIEW

#### MEDIUM DUTY INSIDE RETURN FLANGE CABLE TRAY

MD - Cable Trays are produced with inside return flanges to provide strength to the component and better load bearing capacity.

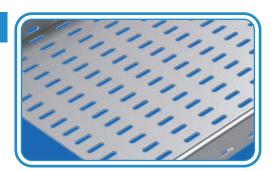
SIDE HEIGHT: 25 mm



#### **HEAVY DUTY INSIDE RETURN FLANGE CABLE TRAY**

**HD** - Cable Trays are produced with inside return flanges with larger depth for better cable management and increased load bearing capacity.

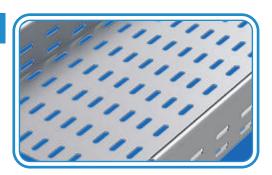
SIDE HEIGHT: 50 mm



#### EXTRA HEAVY DUTY INSIDE RETURN FLANGE CABLE TRAY

**XD** - Cable Trays are produced with inside return flanges for extra heavy duty applications and extra load bearing capacity.

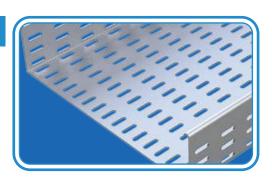
SIDE HEIGHT: 75 mm



#### DOUBLE EXTRA HEAVY DUTY INSIDE RETURN FLANGE CABLE TRAY

XXD - Cable Trays are produced with inside return flanges for Double extra heavy duty applications and High load bearing capacity.

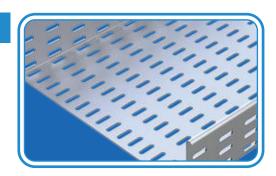
SIDE HEIGHT: 100 mm



#### **OUTSIDE RETURN FLANGE CABLE TRAY**

Outside Return Flange Cable Trays are produced with flanges returning towards outside of the tray. These tray systems are produced for Medium, Heavy, Extra Heavy and Double Extra Heavy Duty applications.

SIDE HEIGHT: 25, 50, 75, 100 mm





★ Custom designed Cable Tray Systems can be manufactured on request.

# MEDIUM DUTY CABLE TRAY SYSTEMS

#### **ORDER PATTERN**

To select the required component, please specify the component, width, radius and finish. Angles can be mentioned wherever necessary.

#### EXAMPLE: For 600 mm wide Cable Tray

#### **MEDIUM DUTY CABLE TRAY**

MD / COMPONENT / WIDTH / THK / FINISH

MD / CTI / 600 / 2 / HDG (CTO for Outside Return Flange)

EXAMPLE: For 600 mm wide Elbow Horizontal 90 °

#### **MEDIUM DUTY CABLE TRAY FITTINGS**

MD / COMPONENT / FITTING / WIDTH / ANGLE / RADIUS / THK / FINISH MD / CTI / EH / 600 / 90 / 300 / 2 / HDG (CTO for Outside Return Flange)

#### STANDARD FINISHES

HDG Hot dip Galvanized to BS EN ISO 1461:2009 ASTM 123

ASTIVI 123

PG Pre-galvanized to BS EN 10346: 2015

PC Powder Coating to suit clients requirements

EP Epoxy Painting to suit clients requirements

SS Stainless steel finish to BS EN 10088-2: 2014

AL Aluminium finish to required grades

AZ Aluzinc finish

#### FOR STRAIGHT LENGTHS AND FITTINGS

Width (W)	Thickness (THK)	
All dimensions are in mm		
50 to 150	0.8 / 0.9 / 1.0 / 1.2 / 1.5 / 2.0 / 2.5	
225 to 300	1.2 / 1.5 / 2.0 / 2.5	
450 to 600	1.5 / 2.0 / 2.5	
750 to 900	2.0 / 2.5	

PSI - Medium Duty Inside / Outside Return Flange Cable Trays are produced in a standard length of 3 mtrs but can be produced in different lengths on request.

PSI - Medium Duty Inside / Outside Return Flange Cable Tray fittings are produced to radius of 150 mm, 300 mm, 450 mm, 600 mm & 900 mm. Radius of 150 mm is considered if not mentioned.

Fish Plates are recommended for the trays & fittings above 300 mm widths for better load bearing capacity.

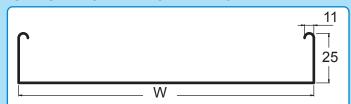
#### STRAIGHT / ANGLE / FLANGE CONNECTOR

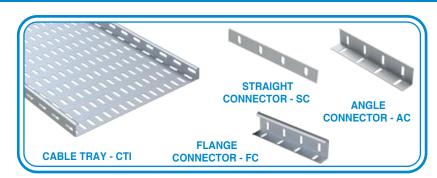
For Component Width (mm)	Thickness (THK)
50 to 900	1.2 - 2.5

- ★ Select an appropriate connector to suit your requirements
- ★ The connectors are supplied with one set of M6 x 15 roofing bolt, nut and washer.

MD / CTI / SC / THK / FINISH CTO for Outside Return Flange

#### MEDIUM DUTY INSIDE RETURN FLANGE





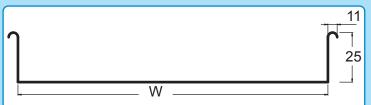


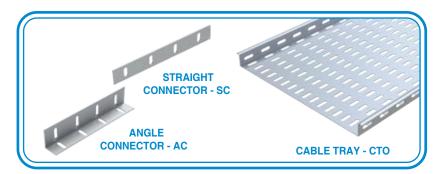




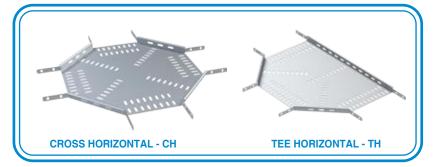


#### MEDIUM DUTY OUTSIDE RETURN FLANGE

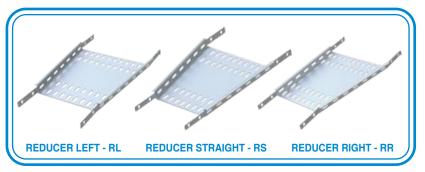












For Unequal Elbow, please specify widths W1 & W2 starting from left hand side.

MD / CTI / UEH / W1 / W2 / ANGLE / RADIUS / THK / FINISH CTO for Outside Return Flange

For Unequal Tee, please specify widths in anticlockwise direction as W1, W2, W3 starting from left hand side.

MD / CTI / UTH / W1 / W2 / W3 / ANGLE / RADIUS / THK / FINISH CTO for Outside Return Flange

For Unequal Cross specify the widths as W1,W2,W3,W4 in anti-clockwise direction starting from the top.

MD / CTI / UCH / W1 / W2 / W3 / W4 / RADIUS / THK / FINISH CTO for Outside Return Flange

Extra long Adjustable Riser can also be produced on request as Internal or External Riser.

MD / CTI / XLAR / WIDTH / THK / FINISH CTO for Outside Return Flange

For Reducers consider W1 as the larger size & W2 as the smaller size.

MD / CTI / REDUCER / WIDTH / THK / FINISH CTO for Outside Return Flange

Thickness for Unequal Tee, Unequal Cross and Reducers to be considered of the larger size of the Fitting.

Reducer Right can be used where cable trays have the limitation of run on the left hand side

Reducer Left can be used where cable trays have the limitation of run on the right hand side

PSI - Cable Tray Fittings are produced with integral connectors for the ease of installation. No external connectors are required.

Bonding Jumpers are used for the Earthing Connectivity. Refer page 18.

Material finish with deep galvanizing is also produced as per the desired specifications.

Flange connectors are provided for extra strength. Flange connectors wrap up the trays from outside and increases the load bearing capacity of the tray.

MD / CTI / FC / THK / FINISH

# HEAVY DUTY CABLE TRAY SYSTEMS

#### **ORDER PATTERN**

To select the required component, please specify the component, width, radius and finish. Angles can be mentioned wherever necessary.

#### EXAMPLE: For 600 mm wide Cable Tray

#### **HEAVY DUTY CABLE TRAY**

HD / COMPONENT / WIDTH / THK / FINISH

HD / CTI / 600 / 2 / HDG (CTO for Outside Return Flange)

#### EXAMPLE: For 600 mm wide Elbow Horizontal 90 °

#### **HEAVY DUTY CABLE TRAY FITTINGS**

HD / COMPONENT / FITTING / WIDTH / ANGLE / RADIUS / THK / FINISH HD / CTI / EH / 600 / 90 / 300 / 2 / HDG (CTO for Outside Return Flange)

#### **STANDARD FINISHES**

HDG Hot dip Galvanized to BS EN ISO 1461 : 2009 ASTM 123

PG Pre-galvanized to BS EN 10346: 2015

PC Powder Coating to suit clients requirements

EP Epoxy Painting to suit clients requirements

SS Stainless steel finish to BS EN 10088-2: 2014

AL Aluminium finish to required grades

AZ Aluzinc finish

#### FOR STRAIGHT LENGTHS AND FITTINGS

Width (W)	Thickness (THK)	
All dimensions are in mm		
50 to 150	0.8 / 0.9 / 1.0 / 1.2 / 1.5 / 2.0 / 2.5	
225 to 300	1.2 / 1.5 / 2.0 / 2.5	
450 to 600	1.5 / 2.0 / 2.5	
750 to 900	2.0 / 2.5	

PSI - Heavy Duty Inside / Outside Return Flange Cable Trays are produced in a standard length of 3 mtrs but can be produced in different lengths on request.

PSI - Heavy Duty Inside / Outside Return Flange Cable Tray Fittings are produced to radius of 150 mm, 300 mm, 450 mm, 600 mm & 900 mm. Radius of 150 mm is considered if not mentioned.

Fish Plates are recommended for the Trays & Fittings above 300 mm widths for better load bearing capacity.

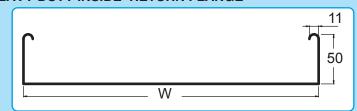
#### STRAIGHT / ANGLE / FLANGE CONNECTOR

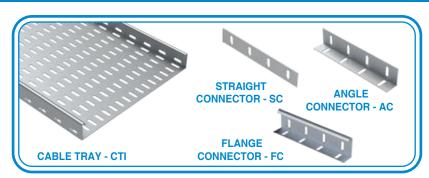
For Component Width (mm)	Thickness (THK)
50 to 900	1.2 - 2.5

- ★ Select an appropriate connector to suit your requirements
- ★ The connectors are supplied with one set of M6 x 15 roofing bolt, nut and washer.

HD / CTI / SC / THK / FINISH CTO for Outside Return Flange

#### **HEAVY DUTY INSIDE RETURN FLANGE**

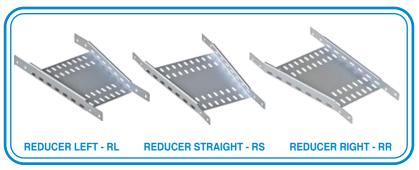




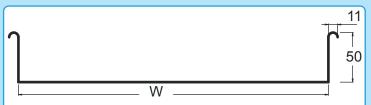


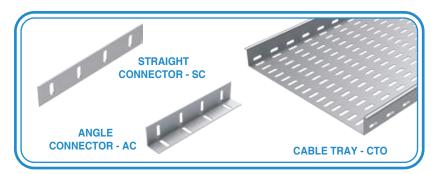




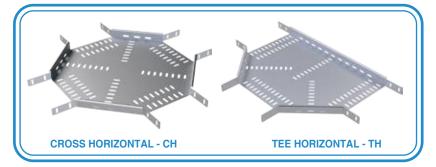


#### **HEAVY DUTY OUTSIDE RETURN FLANGE**













For Unequal Elbow, please specify widths W1 & W2 starting from left hand side.

HD / CTI / UEH / W1 / W2 / ANGLE / RADIUS / THK / FINISH CTO for Outside Return Flange

For Unequal Tee, please specify widths in anticlockwise direction as W1, W2, W3 starting from left hand side.

HD/CTI/UTH/W1/W2/W3/ANGLE/RADIUS/THK/FINISH CTO for Outside Return Flange

For Unequal Cross specify the widths as W1,W2,W3,W4 in anti-clockwise direction starting from the top.

HD / CTI / UCH / W1 / W2 / W3 / W4 / RADIUS / THK / FINISH CTO for Outside Return Flange

Extra long Adjustable Riser can also be produced on request as Internal or External Riser.

HD/CTI/XLAR/WIDTH/THK/FINISH CTO for Outside Return Flange

For Reducers consider W1 as the larger size & W2 as the smaller size.

HD / CTI / REDUCER / WIDTH / THK / FINISH CTO for Outside Return Flange

Thickness for Unequal Tee, Unequal Cross and Reducers to be considered of the larger size of the fitting.

Reducer Right can be used where cable trays have the limitation of run on the left hand side

Reducer Left can be used where cable trays have the limitation of run on the right hand side

PSI - Cable Tray Fittings are produced with integral connectors for the ease of installation. No external connectors are required.

Bonding Jumpers are used for the Earthing Connectivity. Refer page 18.

Material finish with deep galvanizing is also produced as per the desired specifications.

Flange connectors are provided for extra strength. Flange connectors wrap up the trays from outside and increases the load bearing capacity of the tray.

HD / CTI / FC / THK / FINISH

# EXTRA HEAVY DUTY CABLE TRAY SYSTEMS

#### **ORDER PATTERN**

To select the required component, please specify the component, width, radius and finish. Angles can be mentioned wherever necessary.

EXAMPLE: For 600 mm wide Cable Tray

#### **EXTRA HEAVY DUTY CABLE TRAY**

XHD / COMPONENT / WIDTH / THK / FINISH

XHD / CTI / 600 / 2 / HDG (CTO for Outside Return Flange)

EXAMPLE: For 600 mm wide Elbow Horizontal 90 °

#### **EXTRA HEAVY DUTY CABLE TRAY FITTINGS**

XHD / COMPONENT / FITTING / WIDTH / ANGLE / RADIUS / THK / FINISH XHD / CTI / EH / 600 / 90 / 300 / 2 / HDG (CTO for Outside Return Flange)

#### **STANDARD FINISHES**

HDG Hot dip Galvanized to BS EN ISO 1461 : 2009

**ASTM 123** 

PG Pre-galvanized to BS EN 10346: 2015

PC Powder Coating to suit clients requirements

EP Epoxy Painting to suit clients requirements

SS Stainless steel finish to BS EN 10088-2: 2014

AL Aluminium finish to required grades

AZ Aluzinc finish

#### FOR STRAIGHT LENGTHS AND FITTINGS

Width (W)	Thickness (THK)	
All dimensions are in mm		
75 to 150	1.0 / 1.2 / 1.5 / 2.0 / 2.5	
225 to 300	1.0 / 1.2 / 1.5 / 2.0 / 2.5	
450 to 600	1.2 / 1.5 / 2.0 / 2.5	
750 to 900	2.0 / 2.5	

PSI - Extra Heavy Duty Inside / Outside Return Flange Cable Trays are produced in a standard length of 3 mtrs but can be produced in different lengths on request.

PSI - Extra Heavy Duty Inside / Outside Return Flange Cable Tray Fittings are produced to radius of 150 mm, 300 mm, 450 mm, 600 mm & 900 mm. Radius of 150 mm is considered if not mentioned.

Fish Plates are recommended for the Trays & Fittings above 300 mm widths for better load bearing capacity.

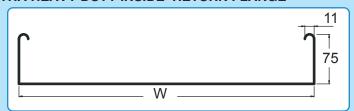
#### STRAIGHT / ANGLE / FLANGE CONNECTOR

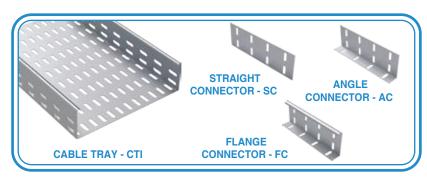
For Component Width (mm)	Thickness (THK)
75 to 900	1.5 - 2.5

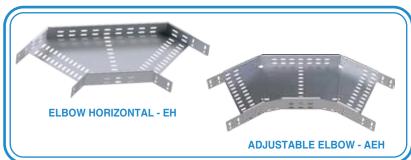
- ★ Select an appropriate connector to suit your requirements
- ★ The connectors are supplied with one set of M6 x 15 roofing bolt, nut and washer.

XHD / CTI / SC / THK / FINISH CTO for Outside Return Flange

#### **EXTRA HEAVY DUTY INSIDE RETURN FLANGE**

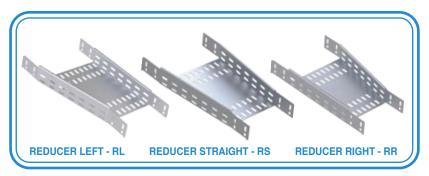




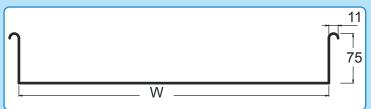


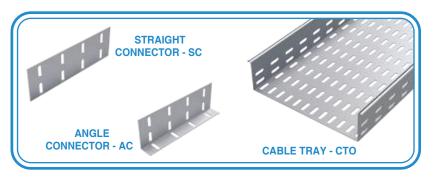




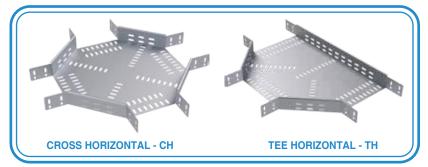


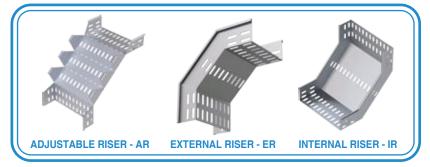
#### **EXTRA HEAVY DUTY OUTSIDE RETURN FLANGE**

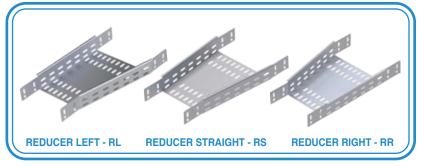












For Unequal Elbow, please specify widths W1 & W2 starting from left hand side.

XHD / CTI / UEH / W1 / W2 / ANGLE / RADIUS / THK / FINISH CTO for Outside Return Flange

For Unequal Tee, please specify widths in anticlockwise direction as W1, W2, W3 starting from left hand side.

XHD / CTI / UTH / W1 / W2 / W3 / ANGLE / RADIUS / THK / FINISH CTO for Outside Return Flange

For Unequal Cross specify the widths as W1,W2,W3,W4 in anti-clockwise direction starting from the top.

XHD / CTI / UCH / W1 / W2 / W3 / W4 / RADIUS / THK / FINISH CTO for Outside Return Flange

Extra long Adjustable Riser can also be produced on request as Internal or External Riser.

XHD / CTI / XLAR / WIDTH / THK / FINISH CTO for Outside Return Flange

For Reducers consider W1 as the larger size & W2 as the smaller size.

XHD / CTI / REDUCER / WIDTH / THK / FINISH CTO for Outside Return Flange

Thickness for Unequal Tee, Unequal Cross and Reducers to be considered of the larger size of the Fitting.

Reducer Right can be used where cable trays have the limitation of run on the left hand side

Reducer Left can be used where cable trays have the limitation of run on the right hand side

PSI - Cable Tray Fittings are produced with integral connectors for the ease of installation. No external connectors are required.

Bonding Jumpers are used for the Earthing Connectivity. Refer page 18.

Material finish with deep galvanizing is also produced as per the desired specifications.

Flange connectors are provided for extra strength. Flange connectors wrap up the trays from outside and increases the load bearing capacity of the tray.

XHD / CTI / FC / THK / FINISH

# DOUBLE EXTRA HEAVY DUTY CABLE TRAY SYSTEMS

#### **ORDER PATTERN**

To select the required component, please specify the component, width, radius and finish. Angles can be mentioned wherever necessary.

#### EXAMPLE: For 600 mm wide Cable Tray

#### **DOUBLE EXTRA HEAVY DUTY CABLE TRAY**

XXHD / COMPONENT / WIDTH / THK / FINISH
XXHD / CTI / 600 / 2 / HDG (CTO for Outside Return Flange)

EXAMPLE: For 600 mm wide Elbow Horizontal 90 °

#### **DOUBLE EXTRA HEAVY DUTY CABLE TRAY FITTINGS**

XXHD / COMPONENT / FITTING / WIDTH / ANGLE / RADIUS / THK / FINISH XXHD / CTI / EH / 600 / 90 / 300 / 2 / HDG (CTO for Outside Return Flange)

#### STANDARD FINISHES

HDG Hot dip Galvanized to BS EN ISO 1461 : 2009 ASTM 123

PG Pre-galvanized to BS EN 10346: 2015

PC Powder Coating to suit clients requirements

EP Epoxy Painting to suit clients requirements

SS Stainless steel finish to BS EN 10088-2: 2014

AL Aluminium finish to required grades

AZ Aluzinc finish

#### FOR STRAIGHT LENGTHS AND FITTINGS

Width (W)	Thickness (THK)	
All dimensions are in mm		
100 to 300	1.2 / 1.5 / 2.0 / 2.5	
450 to 600	1.5 / 2.0 / 2.5	
750 to 900	2.0 / 2.5	

PSI - Double Extra Heavy Duty Inside / Outside Return Flange Cable Trays are produced in a standard length of 3 mtrs but can be produced in different lengths on request.

PSI - Double Extra Heavy Duty Inside / Outside Return Flange Cable Tray Fittings are produced to radius of 150 mm, 300 mm, 450 mm, 600 mm & 900 mm. Radius of 150 mm is considered if not mentioned.

Fish Plates are recommended for the Trays & Fittings above 300 mm widths for better load bearing capacity.

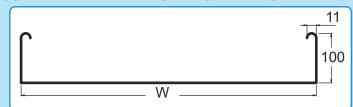
#### STRAIGHT / ANGLE / FLANGE CONNECTOR

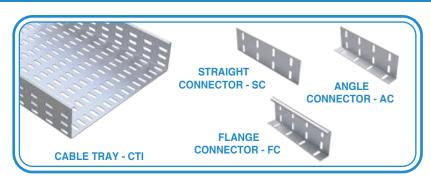
For Component Width (mm)	Thickness (THK)
100 to 900	1.5 - 2.5

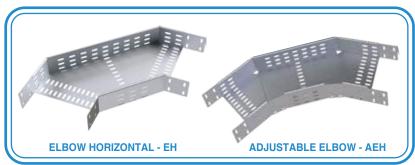
- ★ Select an appropriate connector to suit your requirements
- ★ The connectors are supplied with one set of M6 x 15 roofing bolt, nut and washer.

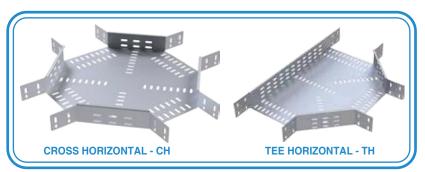
XXHD / CTI / SC / THK / FINISH CTO for Outside Return Flange

#### DOUBLE EXTRA HEAVY DUTY INSIDE RETURN FLANGE

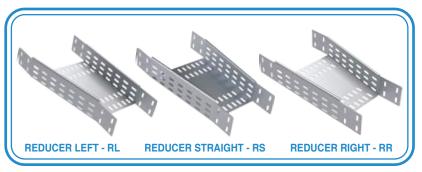




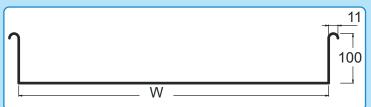


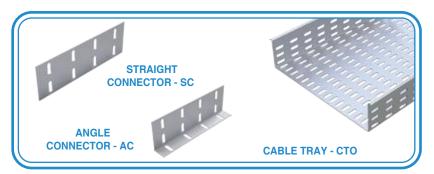




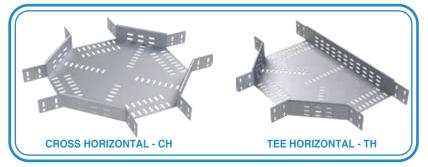


#### **DOUBLE EXTRA HEAVY DUTY OUTSIDE RETURN FLANGE**

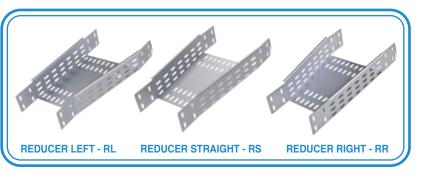












For Unequal Elbow, please specify widths W1 & W2 starting from left hand side.

XXHD / CTI / UEH / W1 / W2 / ANGLE / RADIUS / THK / FINISH CTO for Outside Return Flange

For Unequal Tee, please specify widths in anticlockwise direction as W1, W2, W3 starting from left hand side.

XXHD/CTI/UTH/W1/W2/W3/ANGLE/RADIUS/THK/FINISH CTO for Outside Return Flange

For Unequal Cross specify the widths as W1,W2,W3,W4 in anti-clockwise direction starting from the top.

XXHD / CTI / UCH / W1 / W2 / W3 / W4 / RADIUS / THK / FINISH CTO for Outside Return Flange

Extra long Adjustable riser can also be produced on request as Internal or External Riser.

XXHD / CTI / XLAR / WIDTH / THK / FINISH CTO for Outside Return Flange

For Reducers consider W1 as the larger size & W2 as the smaller size.

XXHD / CTI / REDUCER / WIDTH / THK / FINISH CTO for Outside Return Flange

Thickness for Unequal Tee, Unequal Cross and Reducers to be considered of the larger size of the fittings.

Reducer Right can be used where Cable Trays have the limitation of run on the left hand side

Reducer Left can be used where Cable Trays have the limitation of run on the right hand side

PSI - Cable Tray Fittings are produced with integral connectors for the ease of installation. No external connectors are required.

Bonding Jumpers are used for the Earthing Connectivity. Refer page 18.

Material finish with deep galvanizing is also produced as per the desired specifications.

Flange connectors are provided for extra strength. Flange connectors wrap up the trays from outside and increases the load bearing capacity of the tray.

XXHD / CTI / FC / THK / FINISH

# CABLE TRAY ROUND RADIAL FITTINGS

#### **ORDER PATTERN**

To select the required component, please specify the component, width, radius and finish. Angles can be mentioned wherever necessary.

#### Select the desired duty application

MD : Medium DutyHD : Heavy DutyXHD : Extra Heavy DutyXXHD : Double Extra Heavy Duty

Add "R" as a Suffix to the Fitting required EXAMPLE: For 750 mm wide Tee Horizontal 90 °

#### **CABLE TRAY ROUND RADIAL FITTINGS**

HD / COMPONENT / FITTING / WIDTH / ANGLE / RADIUS / THK / FINISH HD / CTI / THR / 750 / 90 / 300 / 2 / HDG (CTO for Outside Return Flange)

#### **DUTY APPLICATION & SIZES**

To select the desired fitting according to the duty application, refer to the concerned page for the selection of width, side height and thickness.

CTI: Cable Tray with Inside Return Flange CTO: Cable Tray with Outside Return Flange Suffix "R": Indicates round radial fitting

#### STANDARD FINISHES

HDG Hot dip Galvanized to BS EN ISO 1461 : 2009

ASTM 123

PG Pre-galvanized to BS EN 10346: 2015

PC Powder Coating to suit clients requirements

EP Epoxy Painting to suit clients requirements

SS Stainless steel finish to BS EN 10088-2: 2014

AL Aluminium finish to required grades

AZ Aluzinc finish

PSI - Inside / Outside Return Flange Cable Trays are produced in a standard length of 3 mtrs but can be produced in different lengths on request.

PSI - Inside / Outside Return Flange Cable Tray fittings are produced to radius of 150 mm, 300 mm, 450 mm, 600 mm & 900 mm. Radius of 150 mm is considered if not mentioned.

Fish Plates are recommended for the trays & fittings above 300 mm widths for better load bearing capacity.

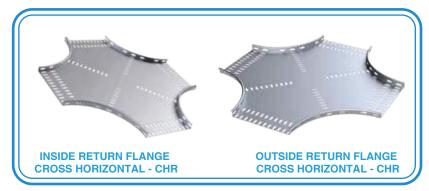
#### STRAIGHT / ANGLE / FLANGE CONNECTOR

For Component Width (mm)	Thickness (THK)
50 to 900	1.5 - 2.5

- Select an appropriate connector to suit your requirements
- ★ The connectors are supplied with one set of M6 x 15 roofing bolt, nut and washer.

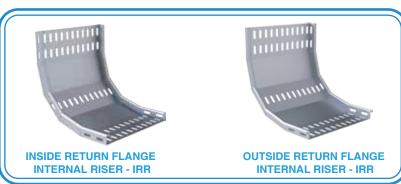
DUTY / CTI / SC / THK / FINISH CTO for Outside Return Flange

#### **MEDIUM DUTY ROUND RADIAL FITTINGS**



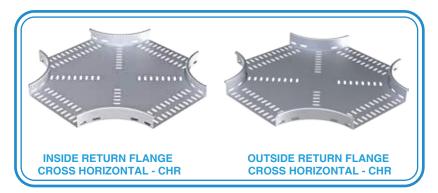








#### **HEAVY DUTY ROUND RADIAL FITTINGS**











For Unequal Elbow, please specify widths W1 & W2 starting from left hand side.

DUTY / CTI / UEH / W1 / W2 / ANGLE / RADIUS / THK / FINISH CTO for Outside Return Flange

For Unequal Tee, please specify widths in anticlockwise direction as W1, W2, W3 starting from left hand side.

DUTY/CTI/UTH/W1/W2/W3/ANGLE/RADIUS/THK/FINISH CTO for Outside Return Flange

For Unequal Cross specify the widths as W1,W2,W3,W4 in anti-clockwise direction starting from the top.

DUTY / CTI / UCH / W1 / W2 / W3 / W4 / RADIUS / THK / FINISH CTO for Outside Return Flange

Extra long Adjustable Riser can also be produced on request as Internal or External Riser.

DUTY / CTI / XLAR / WIDTH / THK / FINISH CTO for Outside Return Flange

For Reducers consider W1 as the larger size & W2 as the smaller size.

DUTY / CTI / REDUCER / WIDTH / THK / FINISH CTO for Outside Return Flange

Thickness for Unequal Tee, Unequal Cross and Reducers to be considered of the larger size of the fitting.

Reducer Right can be used where Cable Trays have the limitation of run on the left hand side

Reducer Left can be used where Cable Trays have the limitation of run on the right hand side

PSI - Cable Tray Fittings are produced with integral connectors for the ease of installation. No external connectors are required.

Bonding Jumpers are used for the Earthing Connectivity. Refer page 18.

Material finish with deep galvanizing is also produced as per the desired specifications.

Flange connectors are provided for extra strength. Flange connectors wrap up the trays from outside and increases the load bearing capacity of the tray.

DUTY / CTI / FC / THK / FINISH

# CABLE TRAY ROUND RADIAL FITTINGS

#### **ORDER PATTERN**

To select the required component, please specify the component, width, radius and finish. Angles can be mentioned wherever necessary.

#### Select the desired duty application

MD : Medium DutyHD : Heavy DutyXHD : Extra Heavy DutyXXHD : Double Extra Heavy Duty

Add "R" as a Suffix to the Fitting required EXAMPLE: For 750 mm wide Tee Horizontal 90 °

#### **CABLE TRAY ROUND RADIAL FITTINGS**

HD / COMPONENT / FITTING / WIDTH / ANGLE / RADIUS / THK / FINISH HD / CTI / THR / 750 / 90 / 300 / 2 / HDG (CTO for Outside Return Flange)

#### **DUTY APPLICATION & SIZES**

To select the desired fitting according to the duty application, refer to the concerned page for the selection of width, side height and thickness.

CTI: Cable Tray with Inside Return Flange CTO: Cable Tray with Outside Return Flange Suffix "R": Indicates round radial fitting

#### **STANDARD FINISHES**

HDG Hot dip Galvanized to BS EN ISO 1461 : 2009

ASTM 123

PG Pre-galvanized to BS EN 10346: 2015

PC Powder Coating to suit clients requirements

EP Epoxy Painting to suit clients requirements

SS Stainless steel finish to BS EN 10088-2: 2014

AL Aluminium finish to required grades

AZ Aluzinc finish

PSI - Inside / Outside Return Flange Cable Trays are produced in a standard length of 3 mtrs but can be produced in different lengths on request.

PSI - Inside / Outside Return Flange Cable Tray fittings are produced to radius of 150 mm, 300 mm, 450 mm, 600 mm & 900 mm. Radius of 150 mm is considered if not mentioned.

Fish Plates are recommended for the trays & fittings above 300 mm widths for better load bearing capacity.

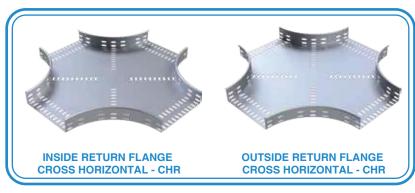
#### STRAIGHT / ANGLE / FLANGE CONNECTOR

For Component Width (mm)	Thickness (THK)
50 to 900	1.5 - 2.5

- ★ Select an appropriate connector to suit your requirements
- ★ The connectors are supplied with one set of M6 x 15 roofing bolt, nut and washer.

**DUTY / CTI / SC / THK / FINISH**CTO for Outside Return Flange

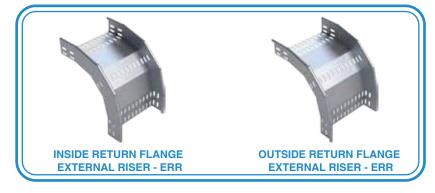
#### **EXTRA HEAVY DUTY ROUND RADIAL FITTINGS**



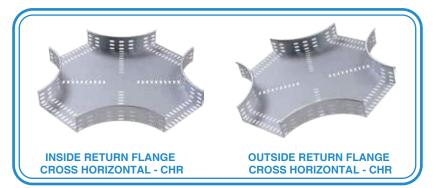






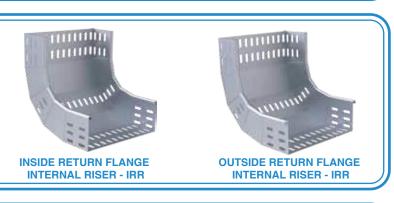


#### DOUBLE EXTRA HEAVY DUTY ROUND RADIAL FITTINGS











For Unequal Elbow, please specify widths W1 & W2 starting from left hand side.

DUTY / CTI / UEH / W1 / W2 / ANGLE / RADIUS / THK / FINISH CTO for Outside Return Flange

For Unequal Tee, please specify widths in anticlockwise direction as W1, W2, W3 starting from left hand side.

DUTY/CTI/UTH/W1/W2/W3/ANGLE/RADIUS/THK/FINISH CTO for Outside Return Flange

For Unequal Cross specify the widths as W1,W2,W3,W4 in anti-clockwise direction starting from the top.

DUTY / CTI / UCH / W1 / W2 / W3 / W4 / RADIUS / THK / FINISH CTO for Outside Return Flange

Extra long Adjustable Riser can also be produced on request as Internal or External Riser.

DUTY / CTI / XLAR / WIDTH / THK / FINISH CTO for Outside Return Flange

For Reducers consider W1 as the larger size & W2 as the smaller size.

DUTY / CTI / REDUCER / WIDTH / THK / FINISH CTO for Outside Return Flange

Thickness for Unequal Tee, Unequal Cross and Reducers to be considered of the larger size of the fitting.

Reducer Right can be used where Cable Trays have the limitation of run on the left hand side

Reducer Left can be used where Cable Trays have the limitation of run on the right hand side

PSI - Cable Tray Fittings are produced with integral connectors for the ease of installation. No external connectors are required.

Bonding Jumpers are used for the Earthing Connectivity. Refer page 18.

Material finish with deep galvanizing is also produced as per the desired specifications.

Flange connectors are provided for extra strength. Flange connectors wrap up the trays from outside and increases the load bearing capacity of the tray.

DUTY / CTI / FC / THK / FINISH

# CABLE TRAY COVERS

#### **ORDER PATTERN**

To select the required component, please specify the component, width, radius and finish. Angles can be mentioned wherever necessary.

#### Select the desired duty application

MD : Medium Duty
HD : Heavy Duty
XHD : Extra Heavy Duty
XXHD : Double Extra Heavy Duty

Add "R" as a Suffix to the Fitting required EXAMPLE: For 750 mm wide Tee Horizontal 90 °

#### **CABLE TRAY ROUND RADIAL FITTINGS**

DUTY / COMPONENT / FITTING / WIDTH / ANGLE / RADIUS / FINISH DUTY / CTI / THC / 750 / 90 / 300 / HDG (CTO for Outside Return Flange)

#### **DUTY APPLICATION & SIZES**

To select the desired fitting according to the duty application, refer to the concerned page for the selection of width, side height and thickness.

CTI: Cable Tray with Inside Return Flange CTO: Cable Tray with Outside Return Flange Suffix "R": Indicates round radial fitting

#### STANDARD FINISHES

HDG Hot dip Galvanized to BS EN ISO 1461 : 2009 ASTM 123

PG Pre-galvanized to BS EN 10346: 2015

PC Powder Coating to suit clients requirements

EP Epoxy Painting to suit clients requirements

SS Stainless steel finish to BS EN 10088-2: 2014

AL Aluminium finish to required grades

AZ Aluzinc finish

#### **COVERS FOR STRAIGHT LENGTHS AND ACCESSORIES**

Range / Width (W)	Thickness (T)	Side Height (H)
All dimensions are in mm		
50 to 300	1.0	11
450 to 600	1.2	11
750 to 900	1.5	11

#### **VENTILATED COVER CLAMP**

Ventilated Cover Clamp VCC is supplied for Ventilated cover arrangement with the set of M6 x 15 roofing bolt, nut & washer. To be ordered separately.

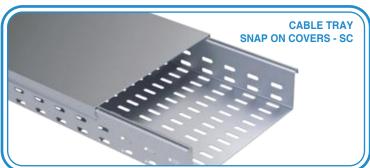
#### **CLOSED COVER CLAMP**

Screw type closed cover clamp SCC is supplied for closed cover arrangement with the set of M6 x 15 roofing bolt, nut & washer. PCC is a push type option & requires no bolts.To be ordered separately.

#### WRAP OVER COVER CLAMP

Wrapover Cover Clamp WCC is supplied for closed cover arrangement with the set of M6 x 15 roofing bolt, nut & washer. To be ordered separately.

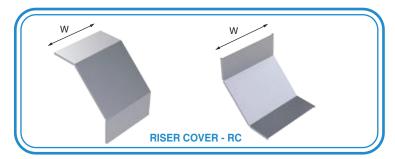




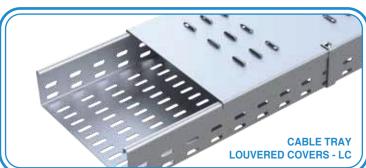








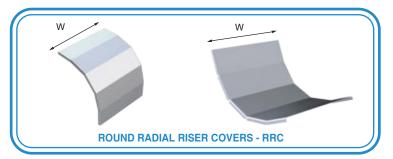












#### **COVER CLAMPS**













For Unequal Elbow Cover, please specify widths W1 & W2 starting from left hand side. For Example

HD / CTI / UEHCC / W1 / W2 / ANGLE / RADIUS / FINISH HD / CTI / UEHVC / W1 / W2 / ANGLE / RADIUS / FINISH CTO for Outside Return Flange

For Unequal Cross Cover specify the widths as W1,W2,W3,W4 in anti-clockwise direction starting from the top. *For Example* 

HD / CTI / UCHCC / W1 / W2 / W3 / W4 / RADIUS / FINISH HD / CTI / UEHVC / W1 / W2 / W3 / W4 / RADIUS / FINISH CTO for Outside Return Flange

For Unequal Tee Cover, please specify widths in anti- clockwise direction as W1, W2, W3 starting from left hand side. For Example

HD / CTI / UTHCC / W1 / W2 / W3 / RADIUS / FINISH HD / CTI / UTHVC / W1 / W2 / W3 / RADIUS / FINISH CTO for Outside Return Flange

Extra long Adjustable Riser Cover can also be produced on request. *For Example* 

HD / CTI / XLARCC / WIDTH / RADIUS / FINISH HD / CTI / XLARVC / WIDTH / RADIUS / FINISH CTO for Outside Return Flange

For Reducer Straight Cover, please specify widths as W1 being the large size and W2 being the smaller size. For Example

HD / CTI / RSCC / W1 / W2 / RADIUS / FINISH HD / CTI / RSVC / W1 / W2 / RADIUS / FINISH CTO for Outside Poture Flance

CTO for Outside Return Flange

For Cover Clamps use "I" as a suffix for Cable Tray Inside Return Flange Cover arrangements. For Cover Clamps use "O" as a suffix for Cable Tray Outside Return Flange Cover arrangements.

HD / CTI / COVER CLAMP / FINISH

HD / CTO / COVER CLAMP / FINISH

Wrap Over Clamps can be used for both type of Cover arrangements.

For special sizes, design, consult our sales team.

# CABLE TRAY ACCESSORIES

#### **ORDER PATTERN**

To select the required component, please specify the component, width, radius and finish. Angles can be mentioned wherever necessary.

#### Select the desired duty application

MD : Medium Duty
HD : Heavy Duty
XHD : Extra Heavy Duty
XXHD : Double Extra Heavy Duty

Add "R" as a Suffix to the Accessory required EXAMPLE: For 750 mm wide Box Connector

#### **CABLE TRAY ACCESSORIES**

DUTY / COMPONENT / ACCESSORY / WIDTH / ANGLE / RADIUS / THK / FINISH DUTY / CTI / THR / 750 / 90 / 300 / 2 / HDG (CTO for Outside Return Flange)

#### **DUTY APPLICATION & SIZES**

To select the desired accessory according to the duty application, refer to the concerned page for the selection of width, side height and thickness.

CTI: Cable Tray with Inside Return Flange CTO: Cable Tray with Outside Return Flange Suffix "R": Indicates round radial accessory

#### STANDARD FINISHES

HDG Hot dip Galvanized to BS EN ISO 1461 : 2009 ASTM 123

PG Pre-galvanized to BS EN 10346 : 2015

PC Powder Coating to suit clients requirements

EP Epoxy Painting to suit clients requirements

SS Stainless steel finish to BS EN 10088-2: 2014

AL Aluminium finish to required grades

AZ Aluzinc finish

Cable Tray Accessories are produced to suit standard and complexed installations of the cable tray system.

For special sizes, gauges, flanges, consult our sales team, factory.

For special design & finishes consult our sales team, factory.

#### **BONDING JUMPER**

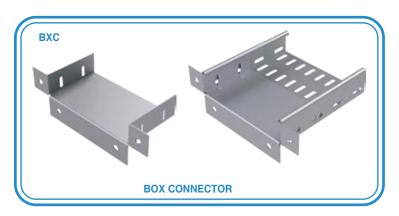
AREA: 4 mm<sup>2</sup>

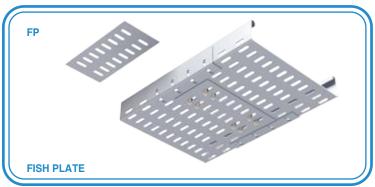
Bonding Jumper for Cable Tray earthing connectivity is produced from braided tinned copper with M6 copper lugs on both sides. Roofing bolts M6 x 15, nuts & washers are used for fastening. Bonding Jumpers with different cross section and lengths can also be ordered on request. To be ordered seperately.

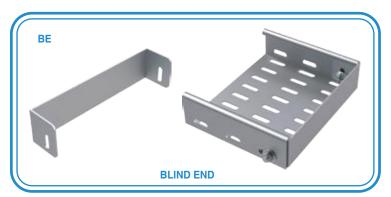
#### **BLIND END**

For Component Width (mm)	Thickness (THK)
50 to 300	1.5
450 to 900	2.0

Roofing bolt M6 x 15, nuts and washers are used for fastening.

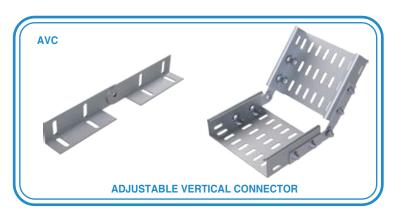


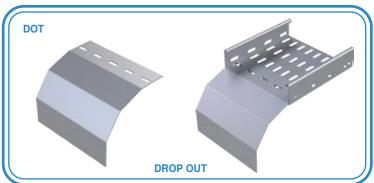




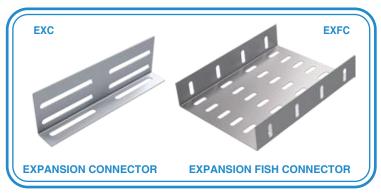


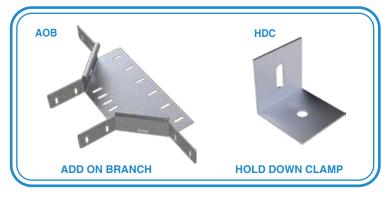












#### REDUCING CONNECTOR

For Component Width (mm)	Thickness (THK) (mm)		
50 to 300	1.5		
450 to 900	2.0		

Roofing bolt M6 x 15, nuts and washers are used for fastening.

#### ADJUSTABLE VERTICAL CONNECTOR

Adjustable Vertical Connectors are produced to standard 2mm thickness.Roofing bolt M6 x 15, nuts and washers are used for fastening.

#### **BOX CONNECTOR**

For Component Width (mm)	Thickness (THK)		
50 to 300	1.5		
450 to 900	2.0		

Roofing bolt M6 x 15, nuts and washers are used for fastening.

#### **DROP OUT**

For Component Width (mm)	Thickness (THK)		
50 to 300	1.5		
450 to 900	2.0		

Roofing bolt M6 x 15, nuts and washers are used for fastening.

#### **FISH PLATE**

ı	For Component Width (mm)	Thickness (THK)		
	50 to 300	1.5		
	450 to 900	2.0		

Roofing bolt M6 x 15, nuts and washers are used for fastening.

#### **BARRIER STRAIGHT**

All barrier straights are produced to standard length of 3 mtr and 1.5 mm thickness. Roofing bolt M6 x 15, nuts and washers are used for fastening.

#### **HOLD DOWN CLAMP**

Hold Down Clamps are produced to standard thickness of 2mm and hexagonal bolt M8 x 20 nuts and washers are used for fastening.

#### **ADD ON BRANCH**

Add On Branch is used to provide a direction extension to the Cable Tray to form a T- Junction. Roofing bolt M6 x 15, nuts and washers are used for fastening.

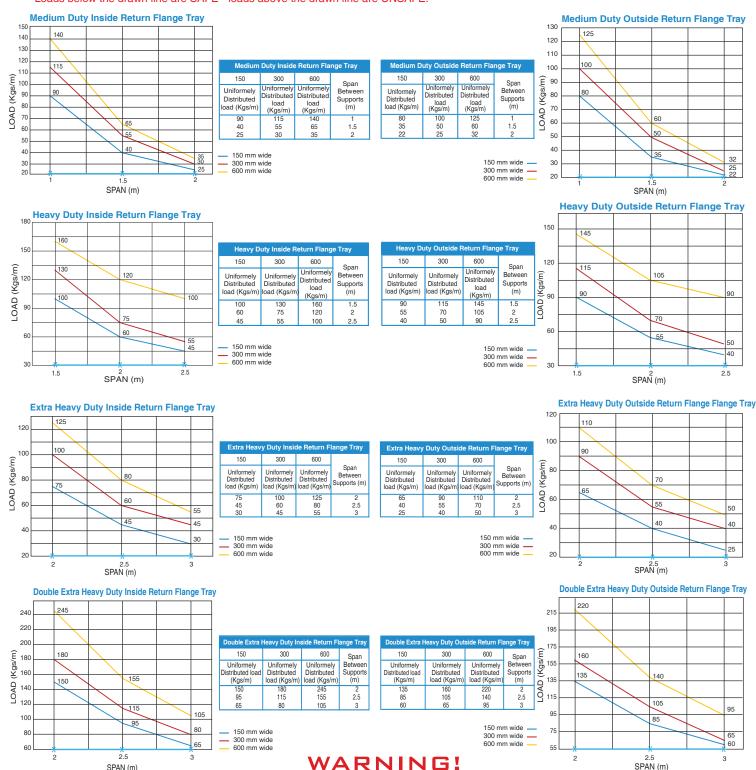
# CABLE TRAY LOAD GRAPHS

#### SAFE WORKING LOADS

The following Loading Charts are to give guidance on maximum safe working loads when using Cable Ladders & Trays (installed horizontally) produced by PSI. They are published in accordance with the requirements of the industry standard BS EN 61537:2007. Load tests simulated the conditions of a multiple span of at least 4 spans with the end spans reduced to 75% of the intermediate spans. When using this information the installer should take into account:

- \* The guidance offered in our presentation of system design considerations should be studied
- \* Loading is assumed to be uniformly distributed. If point loads are imposed or the installation is less than 4 spans our technical department should be consulted.
- ★ The graphs should not be extrapolated to shorter or longer spans than those shown.
- ★ The installer should be satisfied that supports are of adequate strength and that all connections are fully tightened
- ★ The loading information is given in good faith based on tests carried out with PSI products. However, PSI cannot be held responsible for a variation in performance of this product range.

The graphical presentation links established maximum safe working loads at specified intermediate spans. Loads below the drawn line are SAFE - loads above the drawn line are UNSAFE.

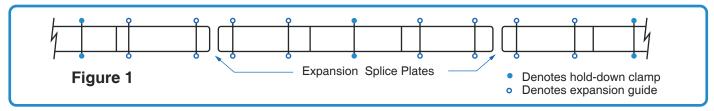


PSI CABLE TRAYS & LADDERS ARE PART OF A CABLE MANAGEMENT SYSTEM. THEY SHOULD NEVER BE USED FOR OTHER STRUCTURAL PURPOSES AND MUST NOT BE USED AS WALKWAYS BY INSTALLATION OR MAINTENANCE PERSONNEL.

#### THERMAL EXPANSION & CONTRACTION

Installation of Cable Management and Cable Support Systems must consider thermal expansion and contraction.

The cable ladder/tray/trunking should be anchored at the support nearest to its midpoint between the expansion splice plates and secured by expansion guides at all other support locations, refer to Figure 1. The cable ladder/tray/trunking should be allowed longitudinal movement in both directions from that fixed point.



#### **Hold Down and Guide Clamp Locations**

- \* Accurate gap setting at the time of installation is necessary for the correct operation of the expansion splice plates.
- ★ The following procedure should be adopted to determine the correct gap with reference to Figure 2.
- ★ Plot the highest expected temperature on the maximum temperature line (Ex. Value = 38°C)
- ★ Plot the lowest expected temperature on the minimum temperature line (Ex. Value = -33°C)
- ★ Draw a line between the maximum and minimum points
- ★ Plot the temperature at the time of installation to determine the gap setting (Ex.Value = 9.5mm (10°C)

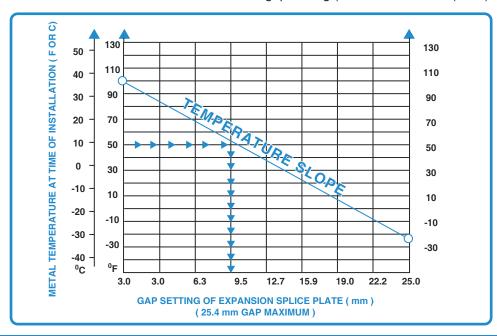


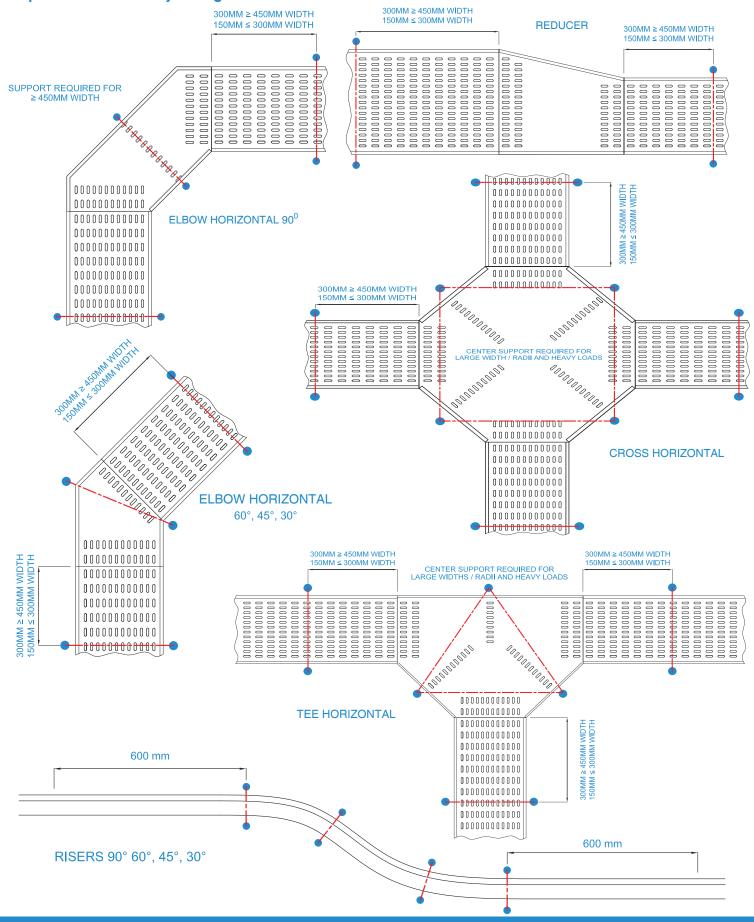
Figure 2

Maximum Spacing Between Expansion Joints For 25.4mm Movement							
Temperature Differential	Steel	Aluminium	Stainless Steel 304	Stainless Steel 316	Fiberglass		
°C	M	M	M	M	M		
14	156	79	106	116	203		
28	78	40	53	58	102		
42	52	27	36	39	68		
56	39	20	27	29	51		
70	31	16	21	23	41		
83	26	13	18	19	34		
97	22	11	15	17	29		

- ★ Temperature differential is the difference in temperature between the hottest and coldest days of the year
- ★ Expansion joints require bonding for electrical continuity
- ★ Supports should be located within 600mm each side of expansion splice plates.

#### RECOMMENDED SUPPORT LOCATIONS

Guidelines for the recommended maximum distance of a support location from the connection point of a Cable Tray Fitting.



#### **INSTALLATION GUIDE**

The following Information is given as guidance on the installation of PSI Cable Tray Systems in accordance with given parameters.

- ★ Selection of the type of cable tray should be in accordance with loading requirements of the installation.
- \* Selection of the type and positioning of supports should be appropriate for the loading requirements of the installation.
- ★ An allowance should be considered for extra cable load to be applied to the cable tray at a future date and the selection of the type of cable tray and supports should reflect this.
- \* Connection of cable trays should ideally be positioned at approximately 0.25L of a support where the bending moment is at zero. Connection of the cable trays should be avoided at mid span or at supports where the bending moment is at maximum and only one connection should be used in each span.
- \* Installation should be over a multiple span of at least 4 spans with the end spans reduced to 75% of the intermediate spans with no joints in the end spans.
- Loading of the cable tray should be uniformly distributed both along the length and width.
- \* Assembly of components of the cable tray system uses M6 roofing bolts and nuts, they should be inserted correctly to avoid damage to the cables and torque tightened to 6Nm
- \* Wider cable trays may be subject to deflection across the width due to the load distribution; this will not be detrimental to the structural performance of the tray but may need consideration if aesthetic appearance is of importance. 'Fish Plates' should be installed on cable trays of 450mm and above
- ★ Where there is connection of cable tray accessories (bends, tees, risers, etc.) extra local support should be installed.
- ★ Cable tray should be securely fixed to all supports at both sides using appropriate fixings and/or brackets
- \* Cable tray runs exposed to wide ambient temperature variations should incorporate expansion connectors in the installation.
- ★ Electrical bonding straps are required to be installed at all connections to ensure earth continuity
- ★ Where it has been necessary to drill or cut items on site damaged surfaces should be repaired in accordance with BS EN ISO 1461 by painting with zinc rich paint.
- \* PSI cable trays are part of a cable support system; they should never be used for other structural purpose and must not be used as a walkway by installation or maintenance personnel. Appropriate warning signs should be installed in visible locations on or near the cable trays/cable ladders.
- \* Installation of systems should be by a competent person(s) familiar with standard electrical installation practices, electrical equipment and safety of electrical wiring systems. When handling, transporting and installing cable tray systems Health & Safety practices and procedures should be strictly enforced at all times including the use of PPE (eye protection, gloves, shoes)
- ★ Loading and deflection information given is based on results from testing of PSI systems; they are however average values given in good faith, PSI cannot be held responsible for a variation in performance of the products actually supplied.

#### HANDLING AND STORAGE OF MATERIALS

Guidelines on the packing, handling and storage of PSI Cable Management and Cable Support Systems when delivered to the project site:

- ★ Straight lengths of product supplied bundled and securely strapped with nylon bands.
- \* Fittings supplied palletised and plastic stretch film wrapped.
- \* All other accessories supplied sacked or boxed, palletised and plastic stretch film wrapped.
- \* Care must be taken at all times when off-loading materials so as to avoid damage and also violation of Health & Safety regulations.
- ★ Suitable lifting equipment should be used having sufficient lifting height, reach and weight capability.
- ★ Banding straps / wires securing the bundles must never be used for off-loading of materials.
- ★ Lifting straps and / or chains should wrap fully around the bundle in such a way that they do not put excessive force on the bottom or top outside edges of the materials.
- ★ When cutting the banding straps / wires personal safety protection should be used i.e. gloves, eye glasses, shoes, etc.
- \* If off-loading by a fork truck, forks should never be inserted in to the ends of the bundles.
- ★ Materials should always be stored under cover in a dry environment.
- \* Materials should not be placed directly on to the floor, wooden and/or steel battens should to support materials.
- \* If materials have become wet during off-loading, bundles should be split, items dried and then re-stacked in such a way as to ensure maximum air circulation around and throughout the bundles/stacks.
- \* If no purpose made on-site storage facility is immediately available temporary storage arrangementsneeds to be made and every precaution taken to avoid deterioration of the materials. This should include re-stacking the materials as described in #9 and then covering with waterproof sheeting, ensuring that this is not laid directly on to the materials so maximum ventilation is ensured around and throughout the materials.
- \* Stored materials should be regularly inspected to evaluate their general condition and particularly to identify any signs of water ingress.
- ★ The above guidelines are the minimum recommendations by PSI and failure to comply could result in deterioration of materials on the project site.

# MATERIAL AND FINISHES

Power Solution Industries offers its range of Cable Management and Cable Support Systems in a variety of materials and finishes to suit the environmental conditions where components will be installed. Choice of an appropriate material/finish is always an important consideration in system design because maintenance of components once installed will be extremely difficult. Clients will undoubtedly expect a long life for the installed system and the choice of appropriate material / finish must consider the expected prevailing atmosphere and its effect on the system components.

Mild steel is an economical material for load bearing structures but if the surface remains untreated, it would rapidly begin to show signs of corrosion even in only mildly aggressive environments. When mild steel corrodes the iron content is converted to oxides (rust) this progressively changes the strong steel into weak oxides which rapidly reduces the load bearing capacity of the affected part. If mild steel is coated with zinc not only is the steel protected by the envelope of zinc whose chemical corrosion rate is low but since zinc is higher in the electro-chemical series, the zinc will always pass into solution before the iron content of steel. The strength of the steel structure will not be weakened by corrosion until the zinc coating has been sacrificed. The length of time it takes for the zinc coating to dissolve is in proportion to the thickness of the coating and the aggressiveness of the environment in which it is exposed.

#### **CARBON STEEL**

Compliant with BS EN 10111:2008, BS 10130:2006 & BS 1449-1.1:991

Carbon steel is an economical material for load bearing structures but if the surface remains untreated, it would rapidly begin to show signs of corrosion even in only mildly aggressive environments. When carbon steel corrodes the iron content is converted to oxides (rust) this progressively changes the strong steel into weak oxides which rapidly reduces the load bearing capacity of the affected part. If carbon steel is coated with zinc not only is the steel protected by the envelope of zinc whose chemical corrosion rate is low but since zinc is higher in the electro-chemical series, the zinc will always pass into solution before the iron content of steel. The strength of the steel structure will not be weakened by corrosion until the zinc coating has been sacrificed. The length of time it takes for the zinc coating to dissolve is in proportion to the thickness of the coating and the aggressiveness of the environment in which it is exposed.

# PRE-GALVANIZED STEEL (PG) also known as Mill Galvanized Steel Compliant with BS EN 10346:2015 & BS EN 10143:2006

Whilst the mild steel is still in wide coil form at the steel mill it is processed in a continuous operation to clean the steel and pass it through a bath of molten zinc which forms iron / zinc alloys and a coating of pure zinc on the surfaces of the steel which is then cooled and re-coiled. This means that the steel is galvanized before it is slit to width, cut to length, pierced and formed to shape. The coating cannot be allowed to become thick because it would split during the forming process. However, since zinc offers electro-chemical protection it will offer protection for what might be considered unprotected edges where the flat material has been cut or pierced? This is an effective and economic anti corrosion finish suitable for interior applications except where there is continual high humidity or corrosive atmosphere.

# HOT DIP GALVANIZED STEEL (HDG) Compliant with BS EN ISO 1461:2009

To achieve this finish components made from mild steel are cleaned and dipped into a bath of molten zinc after all the other manufacturing process have been completed. Not only does this ensure that the whole of the component is coated, it offers the opportunity to develop a much thicker zinc coating than is possible with pre-galvanizing. Power Solution Industries takes particular care to ensure that distortion of components is minimized during the galvanising process however, this is a hot working process and some distortion and surface roughness may be in evidence. Since the zinc thickness is far greater than that of pre-galvanized steel the anti-corrosive properties are enhanced. This finish will be suitable for most exterior installations except where there is a very aggressive atmosphere.

### MATERIAL AND FINISHES

#### STAINLESS STEEL (SS)

#### Compliant with BS EN 10088-1:2014 & BS EN 10088-2:2014

Stainless steel differs from mild steel, in that, it contains a variety of alloyed elements, which very significantly reduce the rate at which the iron content will oxidize. The name "stainless" is a misnomer because many pollutants and chemicals will mark or stain the surface but this does not erode the strength of the steel as rusting weakens mild steel. To obtain good forming and outstanding corrosion resistance properties austenitic grades of stainless steel are used. They also have the property that they will withstand aggressive chemicals used to wash down processing areas where good hygiene is a high priority. The fact that stainless steel can maintain strength properties even when exposed to high temperature is also a valuable asset. This portfolio of useful properties makes stainless steel suitable for systems exposed to very aggressive atmospheres, including marine environments, high levels of pollution, caustic soda and temperatures of 1000deg C for periods long enough to give some integrity to electrical circuits in a fire emergency.

#### **ANODIZED ALUMINUM**

The anodized coating is hard, durable, will never peel, and, under normal conditions, will never wear through. The purpose of anodizing is to form a layer of aluminum oxide that will protect the aluminum beneath it. The aluminum oxide layer has much higher corrosion and abrasion resistance than aluminum.

Aluminum is a light & basic material for load bearing structural members of Aluminum Cable trays or ladders, made out of 6063-T6 Aluminum Extrusion, a material that economically meets the requirements of the installations. The 6063-T6 alloys have adequate strength & good corrosion resistance. It is lightweight, easy maintenance & because of the non-magnetic properties of Aluminum, keeps electrical losses to a minimum.

#### Compliant with BS EN ISO 12944-5:2007

Two component epoxy polyurethane coating system offering high build finishing coats for the protection of steel in corrosive environments, applied to carbon steel or hot dipped galvanized surfaces.

#### **EPOXY POWDER COATING**

These coatings are applied to carbon steel systems. The coatings can be offered in a wide variety of colors to meet architectural project requirements. The coatings themselves are resilient to damage and will withstand atmospheric pollution and ultra violet exposure from sunlight. However if the coating envelope is broken the steel substrate will have little defense to corrosive agents.

A highly decorative appearance can be achieved but longevity of this finish cannot be guaranteed



BSI KITEMARK CERTIFIED PRODUCTS

1ST CABLE MANAGEMENT MANUFACTURING COMPANY IN

MIDDLE EAST AND AFRICA

BSI KITEMARK

**EDITION 2023** 

Engineered to Excellence

# QUALITY CERTIFICATIONS

















Quality Policy

# Quality Policy "Excellence in Engineering"

Marketed & Represented by



# Spectrum7 TRADING

Tel: +971 4 572 4787 | P. O. Box : 113403 | Dubai | UAE sales.ae@spectrum7.net | export@spectrum7.net

www.spectrum7.net

**EXCLUSIVE DISTRIBUTION CHANNEL** 

# **MANUFACTURING**

## **UNITED ARAB EMIRATES**

P.O. Box: 113403, Dubai

Tel: +971 4 5724787

opr.ae@powersolutionme.com

# **KINGDOM OF SAUDI ARABIA**

P.O. Box: 245458, Riyadh

Tel: +966 11 2422511

sales.sa@powersolutionme.com

www.powersolutionme.com



Engineered to Excellence