DANA

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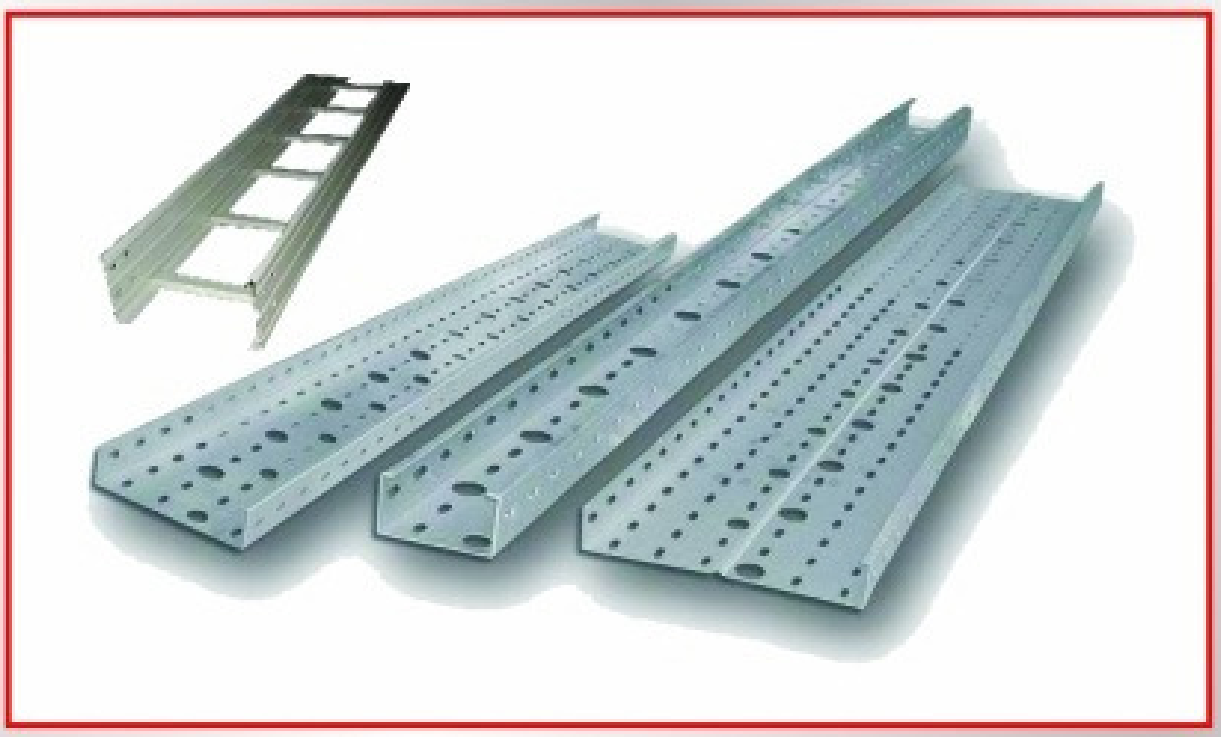
DANA GROUP

DANA STEEL PROCESSING INDUSTRIES L.L.C.



DANA CABLE MANAGEMENT SYSTEM

CABLE LADDERS AND ACCESSORIES

SEVEN EAGLES INTERNATIONAL TRADING L.L.C. Dubai U.A.E.

Is one of the largest and strongest suppliers of Structural Steel and Building Materials in the United Arab Emirates and the Middle East Markets. Today, SEVEN EAGLES INTERNATIONAL TRADING LLC is one of the biggest importers and stockiest of all kinds of Structural Steel and Building Materials in the region. Catering from small to big Fabricators, End Users in the Construction and Oil Field Industries as well as Traders.

DANA WATER HEATERS & COOLERS FACTORY L.L.C. Dubai U.A.E.

The factory located in Al-Quos Industrial Area, Dubai undertakes the manufacture of Water-Heaters, Water Chillers, Water-Coolers & Water-Dispensers under the brand name DANA. The factory is well equipped with the latest machines and technological know-how with a dedicated team of 50 well skilled personnel. Very recently we have installed facilities for Glass Lining and Cut-to-Length of Galvanized Sheets. We are the first company to have online manufacturing of Glass lined water heaters certified from Dubai Municipality, ECAS (Emirates Conformity) & CE. The factory has also attained ISO 9001:2000 AND GCC Certification as a proof of the high quality standardized goods production.

DANATECH BUILDING CONSTRUCTION, Umm-Al-Quwain, U.A.E..

This is a team of experienced Civil engineers, Carpenters & joinery workers, with the most modern machinery equipment & tools including a full team of very professional workforce with years of experience in their respective areas of specialization .To date, DANATECH BUILDING CONSTRUCTION is involved in custom made and contract furniture/interior fit-out, not only throughout the Emirates and the Gulf, but also in the International field. DANATECH is committed to providing the need of architects, interior designers, contractors and end user in their quest for quality and competitive price. The "DANA" brand as always is committed to serve it's customers needs.

DANA STEEL PROCESSING INDUSTRIES LLC,Um-Al-Quwain,U.A.E.

A) Coil and Plate Service Center Division

Under it's expansion plan, DANA group established it's extended coil service center located in Umm-al-quwain, which has imported machinery to handle thickness in the range of 4-18 mm , and 2000 mm wide. With a max coil load capacity of 30 T, it is only one of this kind.

B) ERW Pipe Mill Division

Adding to it's range, DANA group decided to value-add steel to make ERW pipes from 1/2" to 3 ". Catering mainly to the booming construction in this region, it has established it's presence within a short span of time.

C) Cable Tray and Ladder Management System

DANA group started manufacturing of Cable Management Systems, with most modern plant & infrastructure. The product range includes Cable Trays, Cable Ladders, Trunkings & accessories, which are supplied to various Power Plants, Electricity Boards, Engineering Organizations and many other ongoing Projects

D) Roll Forming Machinery:

DANA serves a variety of industries including appliance, automotive, construction, electronics, lawn and garden, office furniture, sports and recreation, etc. with a variety of products including angles, C channels, top covers, eave, valley gutters, gable , corner, eave angles, purlin tapes, Z purlins.

VIDHYADHAR NAGAR HOSPITAL PRIVATE LIMITED

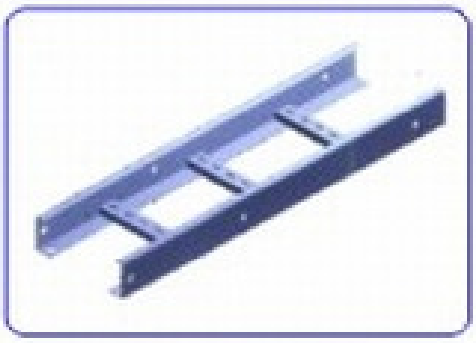
This is another company under the umbrella of DANA Groups registered in India, and is concerned with medical field. A multi-disciplinary hospital having world class medical facilities is being constructed in Vidhya Dhar Nagar Jaipur,INDIA under the supervision of this company.

DANA INDUSTRIES

Dana Industries is the name of manufacturing facility spread over a wide area of 35000 sq. m. in Chopanki Industrial Area, Bhiwari NCR, Rajasthan, India. The unit employs around 100 skilled & semi-skilled personnel using Hi-Tech Contemporary Machinery. It includes a highly efficient coil service center catering to many automotive industries of the area, an API mill and a tailor-welded-blank (TWB) plant providing steel sheets for automobile production.

APIKA ENTERPRISES

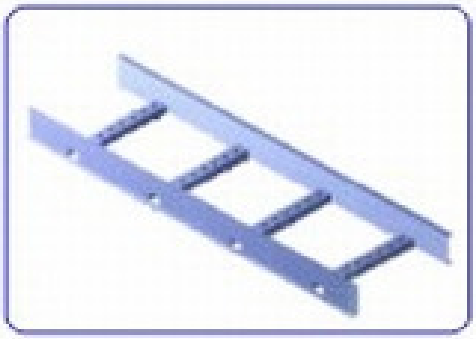
Apika Enterprises deals with exports, imports of various products for domestic market and overseas. These include Plant and machinery, flat metal products and other hardware products.



LIGHT DUTY METAL CABLE LADDERS

LDL - Cable Ladders are produced up to 600 mm width with inside return flange for light duty applications only.

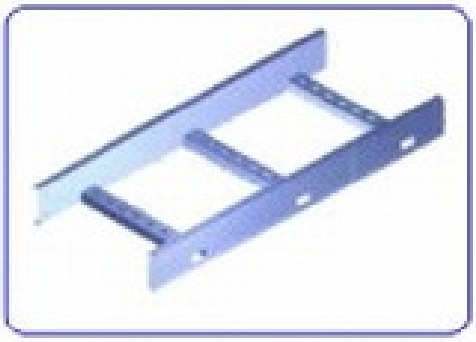
SIDE HEIGHT : 60 mm
USABLE HEIGHT : 43 mm



MEDIUM DUTY METAL CABLE LADDERS

MDL - Cable Ladders are produced with outside flange to provide strength and rigidity to the component.

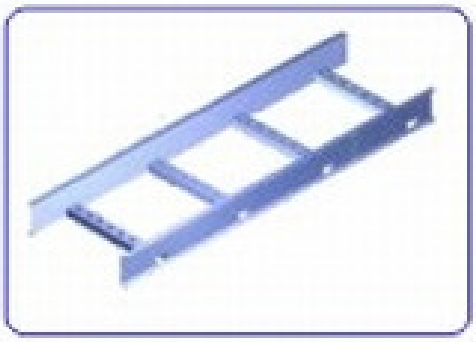
SIDE HEIGHT : 100 mm
USABLE HEIGHT : 75 mm



HEAVY DUTY METAL CABLE LADDERS

HDL - Cable Ladders are produced with outside return flange to provide the component increased depth, heavy strength and rigidity to support heavy cable loads.

SIDE HEIGHT : 125 mm
USABLE HEIGHT : 100 mm



EXTRA HEAVY DUTY METAL CABLE LADDERS

XDL - Cable Ladders are produced with outside return flange with larger depth for better cable management and increased load bearing capacity.

SIDE HEIGHT : 150 mm
USABLE HEIGHT : 121 mm

DANA

ORDER PATTERN

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

EXAMPLE: For 300 mm wide Cable Ladder.

LDL / COMPONENT / WIDTH / FINISH (WITHOUT ANGLE)

LDL / CL / 300 / HDG

EXAMPLE: For 300 mm wide Elbow Horizontal 90°

LDL / COMPONENT / WIDTH / ANGLE / FINISH (WITH ANGLE)

LDL / EHL / 300 / 90 / HDG

STANDARD FINISHES

HDG	Hot dip Galvanized to BS EN ISO 1461:1999 (Formerly BS 729)
PG	Pre-galvanized to BS EN 10142 & 10143
PC	Powder Coating to suit clients requirements
SS	Stainless steel finish to required grades

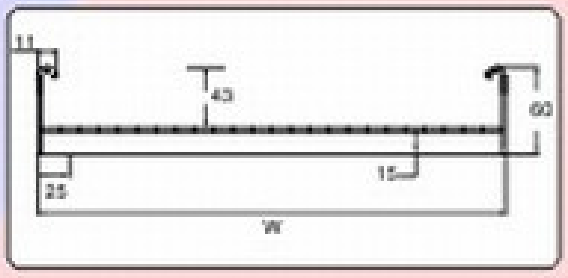
FOR STRAIGHT LENGTHS AND ACCESSORIES

Width (W)	Thickness (T)
All dimensions are in mm	
100 to 600	1.5

Light duty cable ladders are produced in a standard length of 3 mtrs but can be produced in different lengths on request.

Light duty cable ladder accessories are produced to standard radius of 300 mm but can be produced in 450 mm, 600mm and 900 mm as required.

Light duty cable ladders are produced up to 600mm wide only. LDL are provided with inside return flanges to provide extra rigidity and strength to the ladder.



LIGHT DUTY LADDERS

LDL / CL / WIDTH / FINISH

LIGHT DUTY ELBOW HORIZONTAL - 30°/45°/60°/90°

LDL / EHL / WIDTH / ANGLE / FINISH

LIGHT DUTY UNEQUAL ELBOW - 30°/45°/60°/90°

LDL / UEHL / W1 / W2 / ANGLE / FINISH

LIGHT DUTY TEE HORIZONTAL

LDL / THL / WIDTH / FINISH

LIGHT DUTY UNEQUAL TEE

LDL / UTHL / W1 / W2 / W3 / FINISH

LIGHT DUTY EXTERNAL RISER - 30°/45°/60°/90°

LDL / ERL / WIDTH / ANGLE / FINISH

LIGHT DUTY INTERNAL RISER - 30°/45°/60°/90°

LDL / IRL / WIDTH / ANGLE / FINISH

LIGHT DUTY CROSS HORIZONTAL

LDL / CHL / WIDTH / FINISH

LIGHT DUTY REDUCER STRAIGHT

LDL / RSL / W1 / W2 / FINISH

LIGHT DUTY REDUCER LEFT

LDL / RLL / W1 / W2 / FINISH

LIGHT DUTY REDUCER RIGHT

LDL / RRL / W1 / W2 / FINISH

LIGHT DUTY FLANGE CONNECTORS

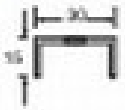
LDL / FCL / FINISH

RUNG DETAILS

The standard rung spacing is 300mm. Optional Rung spacing is 150mm, 250mm as required.

Width (W)	Thickness (T)
All dimensions are in mm	
100 to 600	2.0

RUNGS



Standard rungs for the light duty ladder are slotted C - type.

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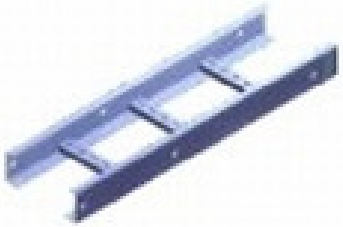


LDL - CABLE LADDER

LDL - FLANGE CONNECTOR

LDL - ELBOW HORIZONTAL

LDL - TEE HORIZONTAL

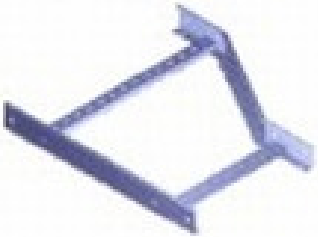
LDL - UNEQUAL TEE

LDL - INTERNAL RISER

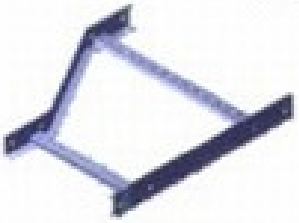
LDL - EXTERNAL RISER

LDL - CROSS HORIZONTAL

LDL - REDUCER STRAIGHT



LDL - REDUCER RIGHT



LDL - REDUCER LEFT

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

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

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

LDL / UCHL / W1 / W2 / W3 / W4 / FINISH

For Reducers consider W1 as the larger size & W2 as the smaller size. Thickness of the Reducer to be followed of the larger size.

Reducing Connectors can also be used for reduction depending on the site application.

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

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

FLANGE CONNECTORS

LD Ladder connectors are produced with flanges to wrap up the side member of the ladder to provide extra strength to the component.

Connectors are supplied in pairs with a set of M6 x 12 roofing bolts, nuts and washers. To be ordered separately.

Width (W)	Thickness (T)
All dimensions are in mm	
100 to 600	2.0

Expansion connectors are also provided to ease the installation process at site. Refer page 13.

Bonding Jumpers are used for earthing connectivity of ladders. Refer page 13.

LDL Cable Ladder Fittings are produced to suit different and complexed installations of light duty ladder system. Refer page 13.

ORDER PATTERN

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

EXAMPLE: For 225 mm wide Cable Ladder.

MDL / COMPONENT / WIDTH / FINISH (WITHOUT ANGLE)

MDL / CL / 225 / HDG

EXAMPLE: For 225 mm wide Elbow Horizontal 90°

MDL / COMPONENT / WIDTH / ANGLE / FINISH (WITH ANGLE)

MDL / EHL / 225 / 90 / HDG

STANDARD FINISHES

HDG	Hot dip Galvanized to BS EN ISO 1461:1999 (Formerly BS 729)
PG	Pre-galvanized to BS EN 10142 & 10143
PC	Powder Coating to suit clients requirements
SS	Stainless steel finish to required grades

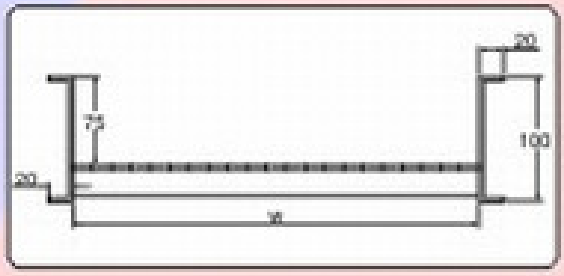
FOR STRAIGHT LENGTHS AND ACCESSORIES

Width (W)	Thickness (T)
All dimensions are in mm	
150 to 600	1.5
750 to 1000	2.0

Medium duty cable ladders are produced in a standard length of 3 mtrs but can be produced in different lengths on request.

Medium duty cable ladder accessories are produced to standard radius of 300 mm but can be produced in 450 mm, 600mm and 900 mm as required.

Medium duty cable ladders are produced above 150mm only. MDL are provided with outside flanges to provide rigidity and strength to the ladder.



MEDIUM DUTY LADDERS

MDL / CL / WIDTH / FINISH

MEDIUM DUTY ELBOW HORIZONTAL - 30°/45°/60°/90°

MDL / EHL / WIDTH / ANGLE / FINISH

MEDIUM DUTY ADJUSTABLE ELBOW

MDL / AEHL / WIDTH / FINISH

MEDIUM DUTY TEE HORIZONTAL

MDL / THL / WIDTH / FINISH

MEDIUM DUTY UNEQUAL TEE

MDL / UTHL / W1 / W2 / W3 / FINISH

MEDIUM DUTY INTERNAL RISER - 30°/45°/60°/90°

MDL / IRL / WIDTH / ANGLE / FINISH

MEDIUM DUTY EXTERNAL RISER - 30°/45°/60°/90°

MDL / ERL / WIDTH / ANGLE / FINISH

MEDIUM DUTY ADJUSTABLE RISER

MDL / ARL / WIDTH / FINISH

MEDIUM DUTY CROSS HORIZONTAL

MDL / CHL / WIDTH / FINISH

MEDIUM DUTY REDUCER STRAIGHT

MDL / RSL / W1 / W2 / FINISH

MEDIUM DUTY REDUCER RIGHT

MDL / RRL / W1 / W2 / FINISH

MEDIUM DUTY REDUCER LEFT

MDL / RLL / W1 / W2 / FINISH

MEDIUM DUTY STRAIGHT CONNECTOR

MDL / SCL / FINISH

RUNG DETAILS

The standard rung spacing is 300mm. Optional Rung spacing is 150mm, 250mm as required.

Standard rungs for the medium duty ladder are slotted C - type.

Width (W)	Thickness (T)
All dimensions are in mm	
150 to 600	1.5
700 to 1000	2.0

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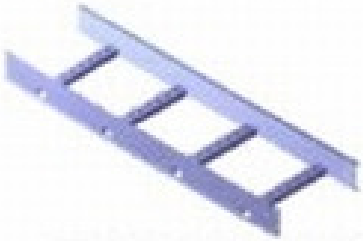
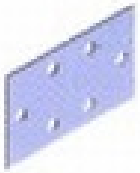


MDL - CABLE LADDER



MDL - STRAIGHT CONNECTOR

MDL - ELBOW HORIZONTAL

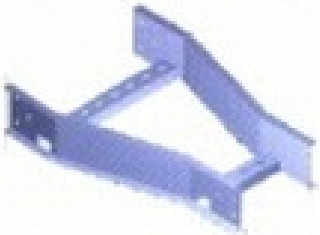
MDL - ADJUSTABLE ELBOW

MDL - TEE HORIZONTAL

MDL - UNEQUAL TEE

MDL - INTERNAL RISER

MDL - EXTERNAL RISER



MDL - REDUCER STRAIGHT

MDL - CROSS HORIZONTAL

MDL - REDUCER LEFT

MDL - REDUCER RIGHT

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

MDL / UEHL / W1 / W2 / ANGLE / FINISH

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

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

MDL / UCHL / W1 / W2 / W3 / W4 / FINISH

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

Reducing Connectors can also be used for reduction depending on the site application.

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

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

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

STRAIGHT CONNECTORS

MDL Cable Ladders are joined together by straight connectors. Connectors are supplied in pairs with a set of M8 x 16 carriage bolts, nuts and washers. To be ordered separately.

Width (W)	Thickness (T)
All dimensions are in mm	
150 to 1000	2.0

Expansion connectors are also provided to ease the installation process at site. Refer page 17.

Bonding Jumpers are used for earthing connectivity of ladders. Refer page 17.

MDL Cable Ladder Fittings are produced to suit standard and complexed installations of medium duty ladder system. Refer page 14.

ORDER PATTERN

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

EXAMPLE: For 300 mm wide Cable Ladder.

HDL / COMPONENT / WIDTH / FINISH (WITHOUT ANGLE)

HDL / CL / 300 / HDG

EXAMPLE: For 300 mm wide Elbow Horizontal 90°

HDL / COMPONENT / WIDTH / ANGLE / FINISH (WITH ANGLE)

HDL / EHL / 300 / 90 / HDG

STANDARD FINISHES

HDG	Hot dip Galvanized to BS EN ISO 1461:1999 (Formerly BS 729)
PG	Pre-galvanized to BS EN 10142 & 10143
PC	Powder Coating to suit clients requirements
SS	Stainless steel finish to required grades

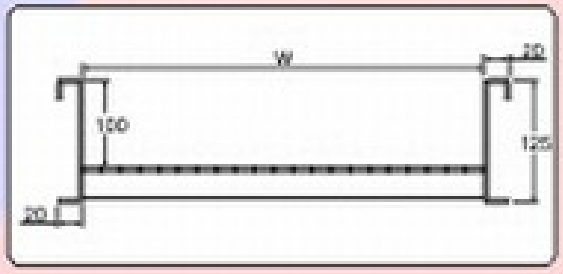
FOR STRAIGHT LENGTHS AND ACCESSORIES

Width (W)	Thickness (T)
All dimensions are in mm	
150 to 1000	2.0

Heavy Duty Cable Ladders are produced in a standard length of 3 mtrs but can be produced in different lengths on request.

Heavy Duty Cable Ladders accessories are produced to standard radius of 300 mm but can be produced in 450 mm, 600mm and 900 mm as required.

Heavy duty cable ladders are produced with 125mm side height to give the user the increased usable height of the ladder. HDL are produced with outside return flanges to provide rigidity and strength to the ladder.



HEAVY DUTY CABLE LADDERS

HDL / CL / WIDTH / FINISH

HEAVY DUTY ELBOW HORIZONTAL - 30°/45°/60°/90°

HDL / EHL / WIDTH / ANGLE / FINISH

HEAVY DUTY ADJUSTABLE ELBOW

HDL / AEHL / WIDTH / FINISH

HEAVY DUTY TEE HORIZONTAL

HDL / THL / WIDTH / FINISH

HEAVY DUTY UNEQUAL TEE

HDL / UTHL / W1 / W2 / W3 / FINISH

HEAVY DUTY EXTERNAL RISER - 30°/45°/60°/90°

HDL / ERL / WIDTH / ANGLE / FINISH

HEAVY DUTY INTERNAL RISER - 30°/45°/60°/90°

HDL / IRL / WIDTH / ANGLE / FINISH

HEAVY DUTY CROSS HORIZONTAL

HDL / CHL / WIDTH / FINISH

HEAVY DUTY REDUCER STRAIGHT

HDL / RSL / W1 / W2 / FINISH

HEAVY DUTY REDUCER RIGHT

HDL / RRL / W1 / W2 / FINISH

HEAVY DUTY REDUCER LEFT

HDL / RLL / W1 / W2 / FINISH

HEAVY DUTY STRAIGHT CONNECTOR

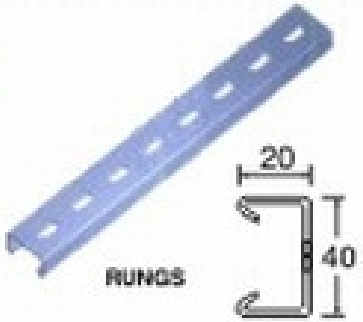
HDL / SCL / FINISH

RUNG DETAILS

The standard rung spacing is 300mm. Optional Rung spacing is 150mm, 250mm as required.

Standard rungs for the heavy duty ladder are slotted C - type with return flanges.

Width (W)	Thickness (T)
All dimensions are in mm	
150 to 600	1.5
750 to 1000	2.0



RUNGS

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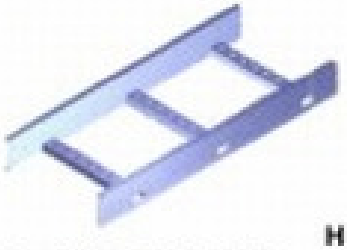


HDL - CABLE LADDER

HDL - STRAIGHT CONNECTOR

HDL - ELBOW HORIZONTAL

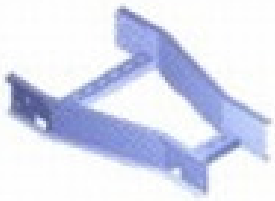
HDL - ADJUSTABLE ELBOW

HDL - TEE HORIZONTAL

HDL - UNEQUAL TEE

HDL - INTERNAL RISER

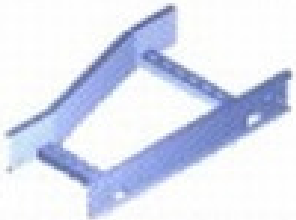
HDL - EXTERNAL RISER



HDL - REDUCER STRAIGHT

HDL - CROSS HORIZONTAL

HDL - REDUCER RIGHT



HDL - REDUCER LEFT

For Unequal Elbow, please specify widths W1 & W2 starting from left hand side.
HDL / UEHL / W1 / W2 / ANGLE / FINISH

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

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

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

Reducing Connectors can also be used for reduction depending on the site application.

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

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

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

STRAIGHT CONNECTORS

HDL Cable Ladders are joined together by straight connectors. Connectors are supplied in pairs with a set of M8 x 16 carriage bolts, nuts and washers. To be ordered separately.

Width (W)	Thickness (T)
All dimensions are in mm	
150 to 1000	2.0

Expansion connectors are also provided to ease the installation process at site. Refer page 16.

Bonding Jumpers are used for earthing connectivity of ladders. Refer page 16.

HDL Cable Ladder Fittings are produced to suit standard and complexed installations of heavy duty ladder system. Refer page 14.

ORDER PATTERN

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

EXAMPLE: For 450 mm wide Cable Ladder.

XDL / COMPONENT / WIDTH / FINISH (WITHOUT ANGLE)

XDL / CL / 450 / HDG

EXAMPLE: For 450 mm wide Elbow Horizontal 90°

XDL / COMPONENT / WIDTH / ANGLE / FINISH (WITH ANGLE)

XDL / EHL / 450 / 90 / HDG

STANDARD FINISHES

HDG	Hot dip Galvanized to BS EN ISO 1461:1999 (Formerly BS 729)
PG	Pre-galvanized to BS EN 10142 & 10143
PC	Powder Coating to suit clients requirements
SS	Stainless steel finish to required grades

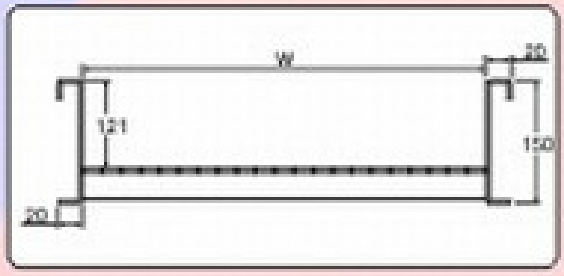
FOR STRAIGHT LENGTHS AND ACCESSORIES

Width (W)	Thickness (T)
All dimensions are in mm	
150 to 1000	2.0

Extra Heavy duty cable ladders are produced in a standard length of 3 mtrs but can be produced in different lengths on request.

Extra Heavy duty cable ladders accessories are produced to standard radius of 300 mm but can be produced in 450 mm, 600mm and 900 mm as required.

Extra Heavy duty cable ladders are produced with 150mm side height to give the user the increased usable height of the ladder. XDL are provided with outside return flanges to provide extra rigidity and strength to the ladder.



EXTRA HEAVY DUTY CABLE LADDERS

XDL / CL / WIDTH / FINISH

EXTRA HEAVY DUTY ELBOW HORIZONTAL - 30°/45°/60°/90°

XDL / EHL / WIDTH / ANGLE / FINISH

EXTRA HEAVY DUTY ADJUSTABLE ELBOW

XDL / AEHL / WIDTH / FINISH

EXTRA HEAVY DUTY TEE HORIZONTAL

XDL / THL / WIDTH / FINISH

EXTRA HEAVY DUTY UNEQUAL TEE

XDL / UTHL / W1 / W2 / W3 / FINISH

EXTRA HEAVY DUTY INTERNAL RISER - 30°/45°/60°/90°

XDL / IRL / WIDTH / ANGLE / FINISH

EXTRA HEAVY DUTY EXTERNAL RISER - 30°/45°/60°/90°

XDL / ERL / WIDTH / ANGLE / FINISH

EXTRA HEAVY DUTY CROSS HORIZONTAL

XDL / CHL / WIDTH / FINISH

EXTRA HEAVY DUTY REDUCER STRAIGHT

XDL / RSL / W1 / W2 / FINISH

EXTRA HEAVY DUTY REDUCER RIGHT

XDL / RRL / W1 / W2 / FINISH

EXTRA HEAVY DUTY REDUCER LEFT

XDL / RLL / W1 / W2 / FINISH

EXTRA HEAVY DUTY STRAIGHT CONNECTOR

XDL / SCL / FINISH

RUNG DETAILS

The standard rung spacing is 300mm. Optional Rung spacing is 150mm, 250mm as required.

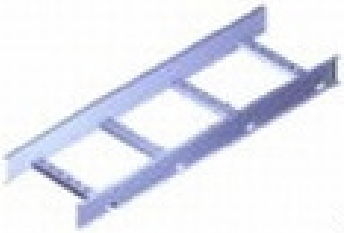
Standard rungs for the extra heavy duty ladder are slotted C - type with return flanges.

Width (W)	Thickness (T)
All dimensions are in mm	
150 to 1000	2.0

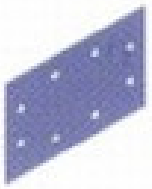
- Optional rungs are 41 x 21 strut channel with 2.5 mm thickness.
- Usable height with optional rungs increases to 124 mm.

RUNGS

Customer Service : Tel :- 00971-4-2217273, Fax :- 00971-4-2215340, Email :- drdana@danagroups.com/drdana@emirates.net.ae



XDL - CABLE LADDER



XDL - STRAIGHT CONNECTOR

XDL - ELBOW HORIZONTAL

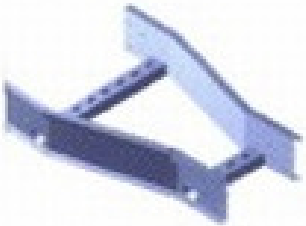
XDL - ADJUSTABLE ELBOW

XDL - TEE HORIZONTAL

XDL - UNEQUAL TEE

XDL - INTERNAL RISER

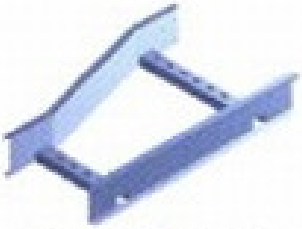
XDL - EXTERNAL RISER



XDL - REDUCER STRAIGHT

XDL - CROSS HORIZONTAL

XDL - REDUCER RIGHT



XDL - REDUCER LEFT

For Unequal Elbow, please specify widths W1 & W2 starting from left hand side.
XDL / UEHL / W1 / W2 / ANGLE / FINISH

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

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

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

Reducing Connectors can also be used for reduction depending on the site application.

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

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

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

STRAIGHT CONNECTORS

XDL Cable Ladders are joined together by straight connectors. Connectors are supplied in pairs with a set of M8 x 16 carriage bolts, nuts and washers. To be ordered separately.

Width (W)	Thickness (T)
All dimensions are in mm	
150 to 1000	2.0

Expansion connectors are also provided to ease the installation process at site. Refer page 14.

Bonding Jumpers are used for earthing connectivity of ladders. Refer page 14.

Load graphs for LDL, MDL, HDL, XDL are provided in the catalogue. Refer page 18.

ORDER PATTERN

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

EXAMPLE: For 450 mm wide Cable Ladder Ventilated Cover

TYPE / COMPONENT COVER / WIDTH / FINISH (WITHOUT ANGLE)

TYPE / CLVC / 450 / HDG

EXAMPLE: For 450 mm wide Elbow Horizontal 90° Closed Cover

TYPE / COMPONENT COVER / WIDTH / ANGLE / FINISH (WITH ANGLE)

TYPE / EHLCC / 450 / 90 / HDG

STANDARD FINISHES

HDG Hot dip Galvanized to BS EN ISO 1461:1999 (Formerly BS 729)

PG Pre-galvanized to BS EN 10142 & 10143

PC Powder Coating to suit clients requirements

SS Stainless steel finish to required grades

COVERS FOR STRAIGHT LENGTHS AND ACCESSORIES

Width (W)	Thickness (T)	Side Height (H)
All dimensions are in mm		
100 to 300	1.0	11
450 to 600	1.2 2.0	11
750 to 1000	1.5	11

LDL - VENTILATED COVER CLAMP

LDL / VCC cover clamp is supplied for LDL ventilated cover arrangement with the set of M6 x 12 roofing bolts, nuts & washers. To be ordered separately.

LDL - CLOSED COVER CLAMP

LDL / CCC scre type closed cover clamp is supplied for LDL closed cover arrangement with the set of M6 x 12 roofing bolt. To be ordered separately.

MDL - VENTILATED COVER CLAMP

MDL / VCC cover clamp is supplied for MDL ventilated cover arrangement with the set of M6 x 12 roofing bolts, nuts & washers. To be ordered separately.

HDL / XDL - VENTILATED COVER CLAMP

TYPE / VCC cover clamp is supplied for HDL & XDL ventilated cover arrangement with the set of M6 x 12 roofing bolts, nuts, washers & hexagonal bolt M6 x 20. To be ordered separately. Please specify the type of order your requirement.

MDL / HDL / XDL - CLOSED COVER CLAMP

TYPE / CCC screw type closed cover clamp is supplied for closed cover arrangement with the set of M6 x 15 hexagonal bolt & washer. To be ordered separately. Please specify the type of order your requirement.

CABLE LADDER CLOSED COVER

TYPE / CLCC / WIDTH / FINISH

CABLE LADDER VENTILATED COVER

TYPE / CLVC / WIDTH / FINISH

ELBOW HORIZONTAL CLOSED COVER

TYPE / EHLCC / WIDTH / ANGLE / FINISH

ELBOW HORIZONTAL VENTILATED COVER

TYPE / EHLVC / WIDTH / ANGLE / FINISH

TEE HORIZONTAL CLOSED COVER

TYPE / THLCC / WIDTH / FINISH

TEE HORIZONTAL VENTILATED COVER

TYPE / THLVC / WIDTH / FINISH

CROSS HORIZONTAL CLOSED COVER

TYPE / CHLCC / WIDTH / FINISH

CROSS HORIZONTAL VENTILATED COVER

TYPE / CHLVC / WIDTH / FINISH

INTERNAL RISER CLOSED COVER

TYPE / IRLCC / WIDTH / ANGLE / FINISH

INTERNAL RISER VENTILATED COVER

TYPE / IRLVC / WIDTH / ANGLE / FINISH

EXTERNAL RISER CLOSED COVER

TYPE / ERLCC / WIDTH / ANGLE / FINISH

EXTERNAL RISER VENTILATED COVER

TYPE / ERLVC / WIDTH / ANGLE / FINISH

UN-EQUAL TEE CLOSED COVER

TYPE / UTHLCC / W1 / W2 / W3 / ANGLE / FINISH

UN-EQUAL TEE VENTILATED COVER

TYPE / UTHLVC / W1 / W2 / W3 / ANGLE / FINISH

REDUCER STRAIGHT CLOSED COVER

TYPE / RSLCC / W1 / W2 / FINISH

REDUCER STRAIGHT VENTILATED COVER

TYPE / RSLVC / W1 / W2 / FINISH

REDUCER RIGHT CLOSED COVER

TYPE / RRLCC / W1 / W2 / FINISH

REDUCER RIGHT VENTILATED COVER

TYPE / RRLVC / W1 / W2 / FINISH

REDUCER LEFT CLOSED COVER

TYPE / RLLCC / W1 / W2 / FINISH

REDUCER LEFT VENTILATED COVER

TYPE / RLLVC / W1 / W2 / FINISH

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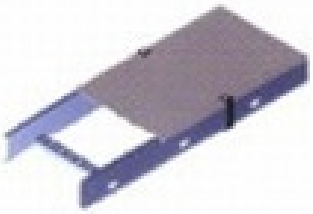
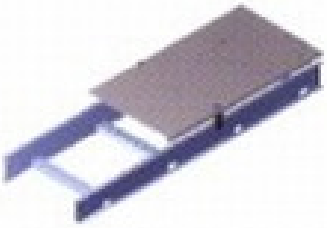
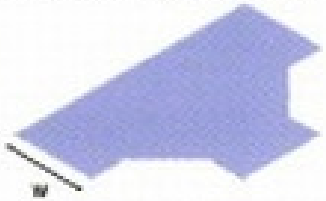


CABLE LADDER CLOSED COVERS

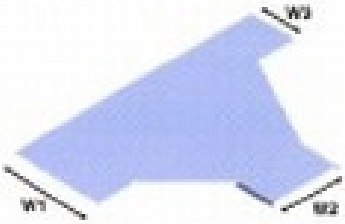


CABLE LADDER VENTILATED COVERS

ELBOW HORIZONTAL COVER

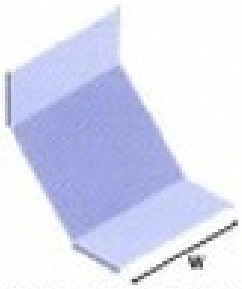


TEE HORIZONTAL COVER

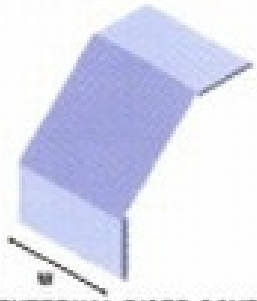


UN-EQUAL TEE COVER

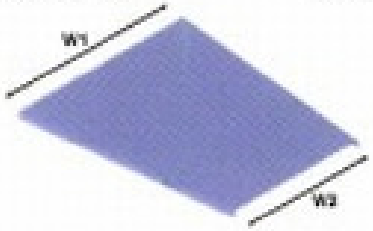
CROSS HORIZONTAL COVER



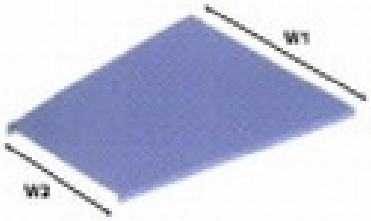
INTERNAL RISER COVER



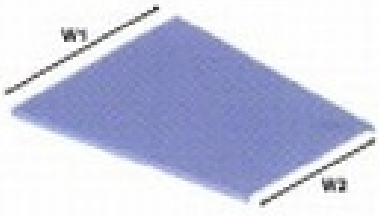
EXTERNAL RISER COVER



REDUCER STRAIGHT COVER

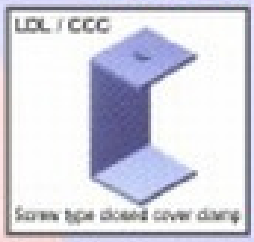


REDUCER RIGHT COVER



REDUCER LEFT COVER

CLOSED COVER CLAMPS



LDL / CCC can be used for Light duty ladders only

- Screw type closed cover clamp can be used for MDL/HDL/XDL arrangement. Specify type to order your requirement.

VENTILATED COVER CLAMPS

LDL / VCC can be used for Light duty ladders only

MDL / VCC can be used for medium duty ladders only

- Ventilated cover clamp can be used for HDL / XDL arrangement. Specify type to order your requirement.

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

TYPE / UCHLCC / W1 / W2 / W3 / W4 / FINISH
TYPE / UCHLVC / W1 / W2 / W3 / W4 / FINISH

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

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

TYPE / UEHLCC / W1 / W2 / ANGLE / FINISH
TYPE / UEHLVC / W1 / W2 / ANGLE / FINISH

Covers can be used as closed or ventilated by using appropriate clamps. Necessary holes are provided on the covers for clamping.

Covers can be produced with louvers also on request.

ORDER PATTERN

To select the required component, please specify the component, type, width & finish.

EXAMPLE: For 450 mm wide Blind End.

COMPONENT / LDL / WIDTH / FINISH

BEL / LDL / 450 / HDG

EXAMPLE: For Hold Down Bracket

COMPONENT / LDL / FINISH

HDBL / LDL / HDG

STANDARD FINISHES

HDG	Hot dip Galvanized to BS EN ISO 1461:1999 (Formerly BS 729)
PG	Pre-galvanized to BS EN 10142 & 10143
PC	Powder Coating to suit clients requirements
SS	Stainless steel finish to required grades

Light Duty Cable Ladder fittings are produced to suit standard and complexed installations of the light duty ladder system.

BLIND END

Standard thickness of blind ends for LDL system is 1.5 mm. Roofing bolt M6 x 12 nuts and washers are used for fastening.

REDUCING CONNECTOR

Standard thickness of Reducing Connector for LDL system is 2.0 mm. Roofing bolt M6 x 12 nuts and washers are used for fastening.

ADJUSTABLE VERTICAL CONNECTOR

Standard thickness of Adjustable Vertical Connector for LDL system is 2.0 mm. Carriage bolt M8 x 16 is used to join two pieces of connectors and Roofing Bolt M6 x 12 nuts and washers are used for connection with ladders.

BOX CONNECTOR

Standard thickness of Box Connector for LDL system is 2.0 mm. Roofing bolt M6 x 12 nuts and washers are used for fastening.

BLIND END

BEL / LDL / WIDTH / FINISH

REDUCING CONNECTOR

RCL / LDL / W1-W2 / FINISH

ADJUSTABLE VERTICAL CONNECTOR

AVCL / LDL / FINISH

BOX CONNECTOR

BXCL / LDL / WIDTH / FINISH

DROP OUT

DOL / LDL / WIDTH / FINISH

BARRIER STRAIGHT

BSL / LDL / FINISH

HOLD DOWN BRACKET

HDBL / LDL / FINISH

EXPANSION CONNECTOR

EXCL / LDL / FINISH

BONDING JUMPER

BJL

HOLD DOWN CLAMP

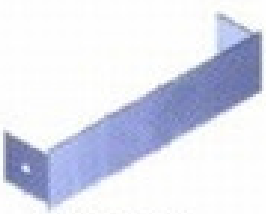
HDCL / LDL / FINISH

MOUNTING PLATE

MP / LDL / WIDTH / FINISH

RIGHT ANGLED CONNECTOR

RACL / LDL / FINISH

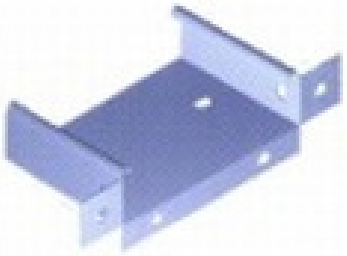


BLIND END

REDUCING CONNECTOR

ADJUSTABLE VERTICAL CONNECTOR

Customer Service : Tel :- 00971-4-2217273, Fax :- 00971-4-2215940, Email :- drdana@danagroups.com/drdana@emirates.net.ae



BOX CONNECTOR

DROP OUT

BARRIER STRAIGHT

HOLD DOWN CLAMP

EXPANSION CONNECTOR

BONDING JUMPER

HOLD DOWN BRACKET

MOUNTING PLATE

RIGHT ANGLED CONNECTOR

BONDING JUMPER

AREA : 16 mm²
LENGHT : 145 mm from center to center

Bonding Jumper for Cable Ladder earthing connectivity is produced from braided tinned copper with M8 copper lugs on both sides. Roofing bolts M6 x 12, nuts & washers are used for fastening. To be ordered separately.

DROP OUT

Standard thickness of Drop out for LDL system is 2.0 mm. Roofing bolt M6 x 12 nuts and washers are used for fastening.

BARRIER STRAIGHT

Standard thickness of Barrier Straight for LDL system is 1.5 mm. Barrier Straights are produced in 3 mtr length and roofing bolt M6 x 12 nuts and washers are used for fastening.

EXPANSION CONNECTOR

Standard thickness of Expansion Connector for LDL system is 2.0 mm. Roofing bolt M6 x 12 nuts and washers are used for fastening.

HOLD DOWN BRACKET

Standard thickness of Hold down bracket for LDL system is 2.0 mm. Hexagonal bolt M8 x 20 nuts and washers are used for fastening. Spring nuts can also be used depending on site application.

HOLD DOWN CLAMP

Standard thickness of Hold down clamp for LDL system is 5.0 mm. Hexagonal bolt M8 x 25 nuts and washers are used for fastening.

MOUNTING PLATE

Standard thickness of Mounting Plates for LDL system is 2.0 mm. Mounting Plates are used for installation of light electrical equipments on a cable ladder run. Roofing bolt M6 x 12 nuts and washers are used for fastening.

RIGHT ANGLED CONNECTOR

Standard thickness of Right Angled Connector for LDL system is 2.0 mm. Roofing bolt M6 x 12 nuts and washers are used for fastening.

ORDER PATTERN

- **The Cable Ladder Fittings on this page are produced for Medium / Heavy / Extra Heavy Duty Ladder Systems.**

To select the required component, please specify the component, type, width & finish.

EXAMPLE: For 450 mm wide Blind End.
COMPONENT / TYPE / WIDTH / FINISH
BEL / MDL / 450 / HDG

EXAMPLE: For Hold Down Bracket
COMPONENT / TYPE / FINISH
HDBL / MDL / HDG

STANDARD FINISHES

HDG	Hot dip Galvanized to BS EN ISO 1461:1999 (Formerly BS 729)
PG	Pre-galvanized to BS EN 10142 & 10143
PC	Powder Coating to suit clients requirements
SS	Stainless steel finish to required grades

Specify the type of the ladder in the table to order the component.

DANA

EDITION 2008

BLIND END

BEL / TYPE / WIDTH / FINISH

REDUCING CONNECTOR

RCL / TYPE / W1-W2 / FINISH

ADJUSTABLE VERTICAL CONNECTOR

AVCL / TYPE / FINISH

BOX CONNECTOR

BXCL / TYPE / WIDTH / FINISH

DROP OUT

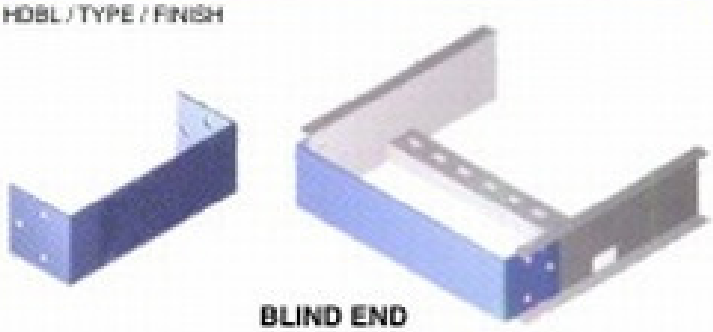
DOL / WIDTH / FINISH

BARRIER STRAIGHT

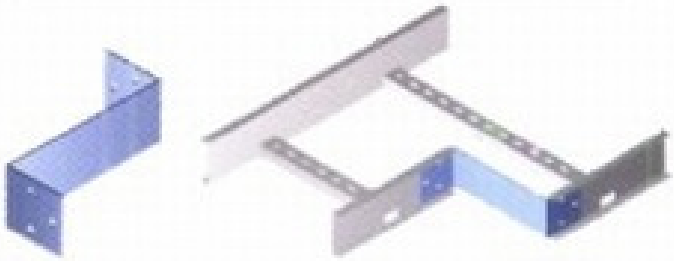
BSL / TYPE / FINISH

HOLD DOWN BRACKET

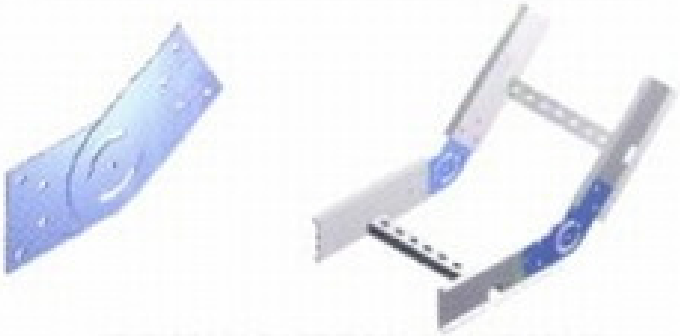
HDBL / TYPE / FINISH



BLIND END



REDUCING CONNECTOR



ADJUSTABLE VERTICAL CONNECTOR

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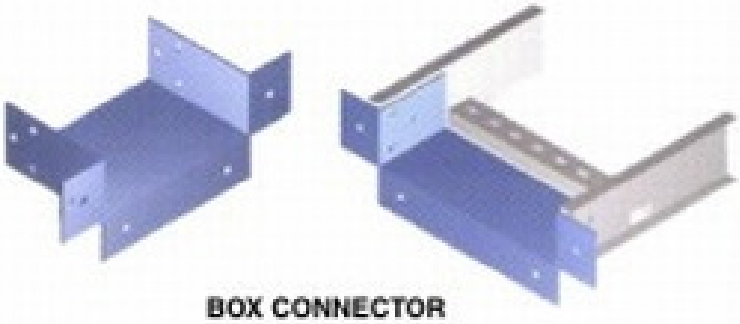
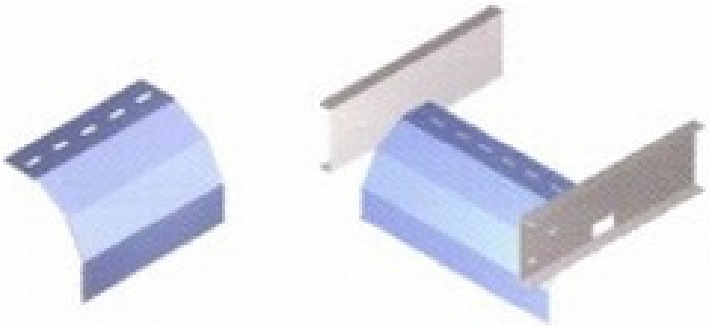
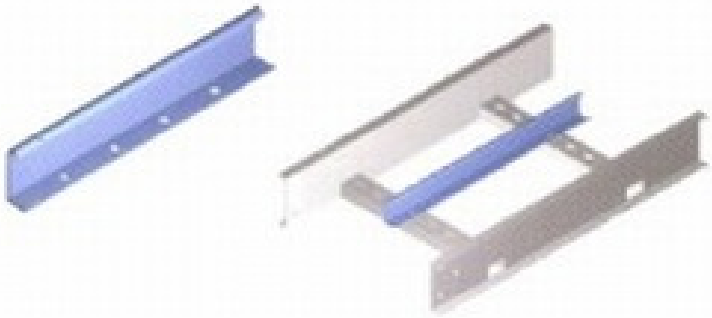


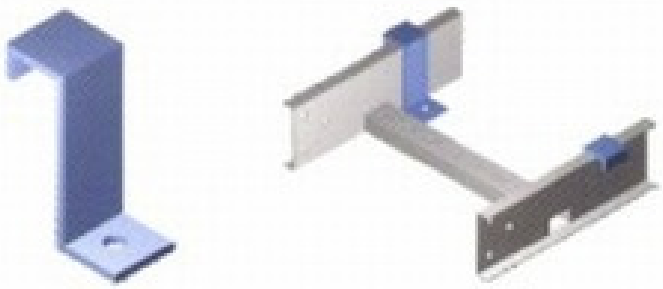
BOX CONNECTOR



DROP OUT



BARRIER STRAIGHT



HOLD DOWN BRACKET

BLIND END

Standard thickness of Blind Ends for Ladder systems is 1.5 mm. Carriage bolt M8 x 16 nuts and washers are used for fastening.

REDUCING CONNECTOR

Standard thickness of Reducing Connector for Ladder systems is 2.0 mm. Carriage bolt M8 x 16 nuts and washers are used for fastening.

ADJUSTABLE VERTICAL CONNECTOR

Standard thickness of Adjustable Vertical Connector for Ladder systems is 2.0 mm. Carriage bolt M8 x 16 nuts and washers are used for fastening.

BOX CONNECTOR

Standard thickness of Box Connector for Ladder systems is 2.0 mm. Carriage bolt M8 x 16 nuts and washers are used for fastening.

DROP OUT

Standard thickness of Drop out for Ladder systems is 2.0 mm. Carriage bolt M8 x 16 nuts and washers are used for fastening.

BARRIER STRAIGHT

Standard thickness of Barrier Straight for Ladder systems is 1.5 mm. Barrier Straights are produced in 3mtr lengths and Carriage bolt M8 x 16 nuts and washers are used for fastening.

HOLD DOWN BRACKET

Standard thickness of Hold down bracket for Ladder systems is 3.0 mm. Hexagonal bolt M10 x 25 nuts and washers are used for fastening. Spring nuts can also be used depending on site application.

ORDER PATTERN

- **The Cable Ladder Fittings displayed on this page are produced for Medium / Heavy / Extra Heavy Duty Ladder Systems.**

To select the required component, please specify the component, type, width & finish.

EXAMPLE: For 450 mm wide Blind End.
COMPONENT / TYPE / WIDTH / FINISH
BEL / MDL / 450 / HDG

EXAMPLE: For Hold Down Bracket
COMPONENT / TYPE / FINISH
HDBL / MDL / HDG

STANDARD FINISHES

HDG	Hot dip Galvanized to BS EN ISO 1461:1999 (Formerly BS 729)
PG	Pre-galvanized to BS EN 10142 & 10143
PC	Powder Coating to suit clients requirements
SS	Stainless steel finish to required grades

Specify the type of the ladder in the table to order the component.

EDITION 2008

EXPANSION CONNECTOR
EXCL / TYPE / FINISH

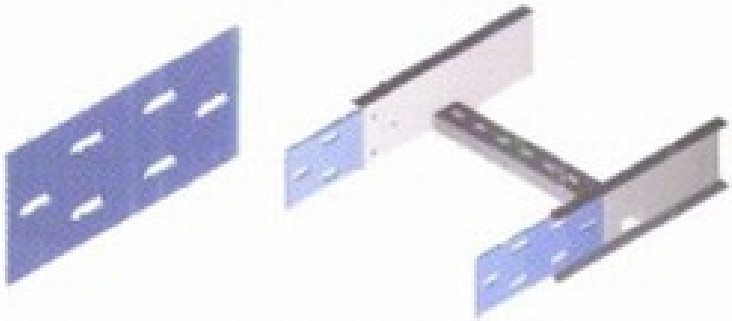
BONDING JUMPER
BJL

HOLD DOWN CLAMP
HDCL / TYPE / FINISH

HINGED CONNECTOR
HCL / TYPE / FINISH

DOUBLE COVER CLAMP
DCCL / TYPE / FINISH

RIGHT ANGLED CONNECTOR
RACL / TYPE / FINISH



EXPANSION CONNECTOR

BONDING JUMPER

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HOLD DOWN CLAMP

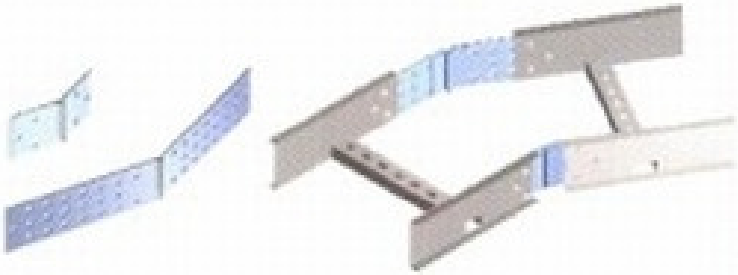
EXPANSION CONNECTOR

Standard thickness of Expansion Connector for Ladder systems is 2.0 mm. Carriage bolt M8 x 16 nuts and washers are used for fastening.

BONDING JUMPER

AREA : 16 mm^2
LENGHT : 145 mm from center to center

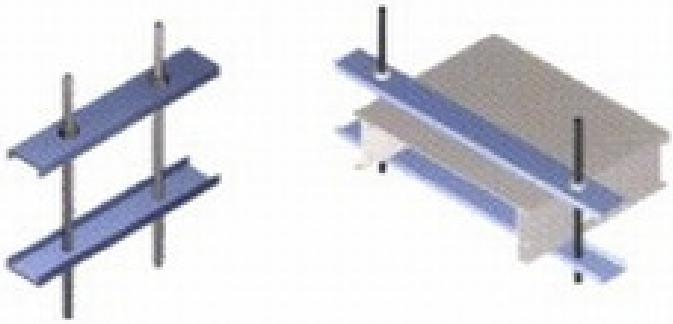
Bonding Jumper for Cable Ladder earthing connectivity is produced from braided tinned copper with M8 copper lugs on both sides. Carriage bolts M8 x 16 nuts & washers are used for fastening. To be ordered separately.



HINGED CONNECTOR

HOLD DOWN CLAMP

Standard thickness of Hold down clamp for Ladder systems is 5.0 mm. Hexagonal bolt M10 x 35 nuts and washers are used for fastening.



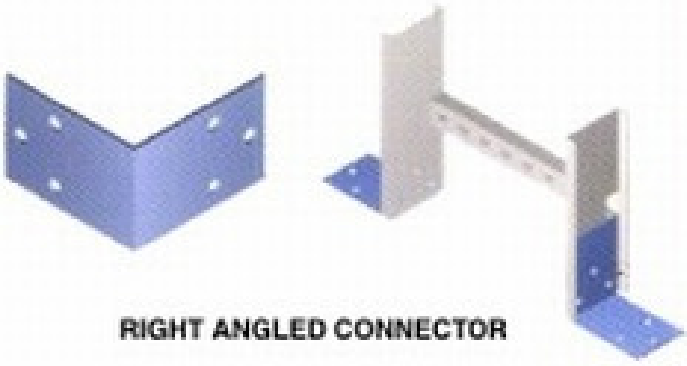
DOUBLE COVER CLAMP

HINGED CONNECTOR

Standard thickness of Hinged Connector for Ladder systems is 2.0 mm. Carriage bolt M8 x 16 nuts and washers are used for fastening.

DOUBLE COVER CLAMP

Standard thickness of Double Cover Clamp for Ladder systems is 2.0 mm and threaded rod M8, nuts and washers are used for fastening.



RIGHT ANGLED CONNECTOR

RIGHT ANGLED CONNECTOR

Standard thickness of Right Angled Connector for Ladder systems is 2.0 mm. Carriage bolt M8 x 16 nuts and washers are used for fastening.

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 DANA. They are published in accordance with the requirements of the industry standard BS EN 61537:2001. 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.

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.

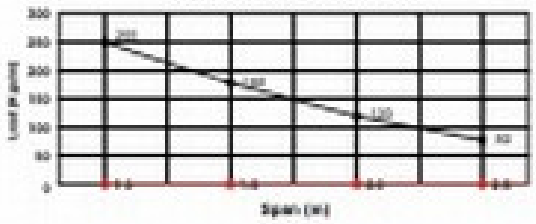
When using this information the installer should take into account :

1. The guidance offered in our presentation of system design considerations should be studied
2. 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.
3. The graphs should not be extrapolated to shorter or longer spans than those shown.
4. The installer should be satisfied that supports are of adequate strength and that all connections are fully tightened.
5. The loading information is given in good faith based on test s carried out with DANA products. However DANA cannot be held responsible for a variation in performance of this product range.

WARNING!

DANA 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

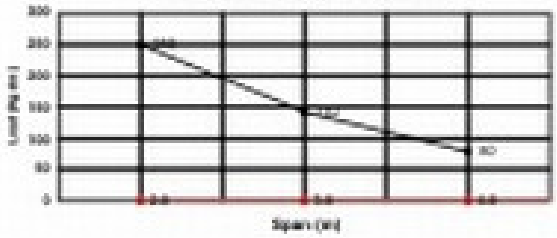
Light Duty Metal Cable Ladders



LDL

Uniformly Distributed Load (Kgs/m)	Span - between supports (m)
200	3.0
160	3.5
120	4.0
80	4.5

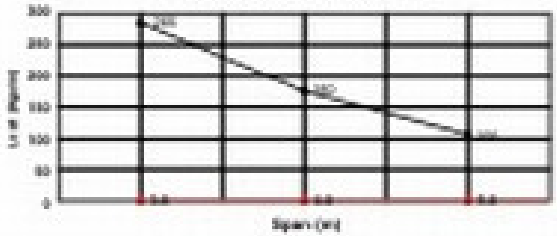
Medium Duty Metal Cable Ladder



MDL

Uniformly Distributed Load (Kgs/m)	Span - between supports (m)
200	3.0
160	3.5
80	4.0

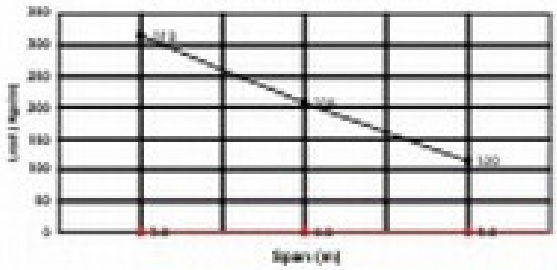
Heavy Duty Metal Cable Ladder



HDL

Uniformly Distributed Load (Kgs/m)	Span - between supports (m)
200	3.0
160	3.5
100	4.0

Extra Heavy Duty Metal Cable Ladder



XDL

Uniformly Distributed Load (Kgs/m)	Span - between supports (m)
240	3.0
200	3.5
120	4.0

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Plate and Coil Service Center, Cable Tray and Ladder, Pipe mill, Roll forming

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(DANA STEEL PROCESSING INDUSTRY L.L.C.)

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