Base Load Power Hub (BLPH)

TECHNICAL DATASHEET For Instrument and Telecom Cable Trays

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Document Class: 2

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00	28/03/2024	Issue for Review (IFR)	VBA	LCA	DLO
Rev.	Date	Description	Prepared	Reviewed	Approved

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Revision / Change Log

Rev.	Description
00	ISSUE FOR REVIEW (IFR)
01	ACCEPTED FOR CONSTRUCTION (AFC)

HOLDS LIST

No.	Description
1.	
2.	
3.	
4.	

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GENERAL REQUIREMENTS / NOTES

1) This datasheet is to be read in conjunction with following documents:
   a) Instrumentation for Package Unit Specification (123A90-DDL-IN-SP-40094);
   b) Instrument Main Cable Routing - Lower Deck (123A90-DDL-IN-DL-40082);
   c) Instrument Main Cable Routing - Upper Deck (123A90-DDL-IN-DL-40083).

2) Ambient Temperature Min: -8.4 °C, Norm: 10.5 °C, Max: +25.0 °C.

3) Information with asterisk (*) shall be confirmed or provided by manufacturer according to the service condition.

4) All cable trays components shall be suitable to be installed in ATEX Zone IIC (IIB+H2) T1.

5) Joint, bolts, nuts & rivets shall be AISI 316 A4 type. Quantity are to be determined by Vendor according to the necessary installation of all Items (i.e. straight elements, special fittings, etc..) plus 10% spare quantity.

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DESIGN DATA - *CABLE TRAYS LADDER TYPE FOR EXTERNAL INSTALLATION - GREY COLOUR*

TYPE	☑ Ladder	☐ Tray with simple ribs		☐ Tray with rimmed ribs
	Thickness 5mm (*)	BENDING RADIUS:	☑ **300mm**	☐ **500mm**
	☑ Cover	☐ Cover spacer		☐ Whitout Cover
	Thickness 5mm (*)			
MATERIAL	☐ Galvanized steel	☐ Stainless steel	☐ Light alloy	☑ FRP (3) ☐ AISI 316L
SURFACE PROTECTION	Galvanized	☐ before machined (ex. with "Sendzimir" process)		☐ after machined
	☐ Surface clean and polished from any welding and working residual			
	☐ Painting			
	Colour:	☑ Grey RAL 7035	☐ blue RAL 5012	☐
	Cycle:			

POS.	DIMENSIONS (6)		a	b	c	d	e	f	g	h	i	l		
	Total External height	H	100	100	100									Manufacturer: Oglaend Supplier: HILTI Series: FOE100 P.O.
	Working internal width	W	300	450	600									
	Working internal width (reducer)	W1												
	DESCRIPTION	**FIG. (7)**	**QUANTITY (8)**											
1	Straight section Y = 3000 mm	A												
2	Y = mm													
3	Plane 90 degree bend	B												
4	Plane 45 degree bend	C												
	Plane 30 degree bend													
5	"T" junction	D												
6	Cross junction	E												
7	Single element for vertical bend	F												
8	Plane left-hand reducing section	G												
9	Plane simmetric reducing section	H												
10	Plane right-hand reducing section	I												
11	Elbow Inside 30°													
12	Elbow Outside 30°													
13	Elbow Inside 45°													
14	Elbow Outside 45°													
15	Elbow Inside 90°													
16	Elbow Outside 90°													
17														
18	Horizontally hinged joint	L												
19	Vertically hinged joint (note 6)	M												
20														
21	Separators													

NOTES :

6) Dimensions in millimeters
7) Reference to sheet 6
8) For quantities please refer to sheet 9 Cable Trays Material Take-OFF
9) FRP = Fiberglass Reinforced Plastic

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CABLE TRAYS LADDER TYPE - FIGURES

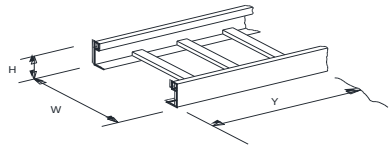


Fig. A
STRAIGHT ELEMENT

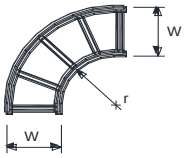


Fig. B
PLANE 90° BEND

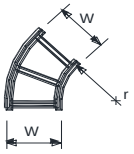


Fig. C
PLANE 45° BEND

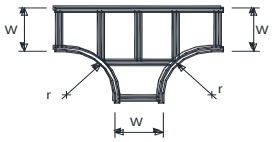


Fig. D
TEE JUNCTION

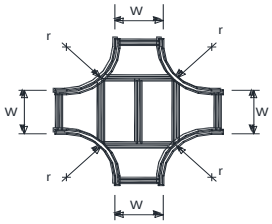


Fig. E
CROSS JUNCTION

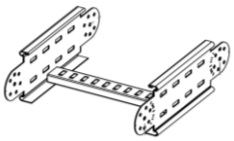


Fig. F
SINGLE ELEMENT FOR VERTICAL BENDS



Fig. G
PLANE LEFT - HAND REDUCING SECTION



Fig. H
PLANE SYMMETRIC REDUCING SECTION



Fig. I
PLANE RIGHT - HAND REDUCING SECTION

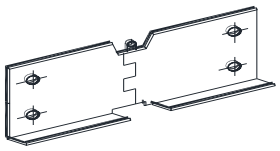


Fig. L
HORIZONTAL HINGED JOINT

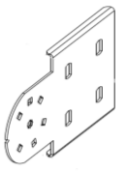


Fig. M
VERTICAL HINGED JOINT

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DESIGN DATA - *CABLE TRAY PERFORATED TYPE FOR EXTERNAL INSTALLATION - GREY COLOUR*

TYPE	☑ Perforated ☐ Tray with simple ribs ☐ Tray with rimmed ribs **Thickness 5mm (*)** BENDING RADIUS: ☑ **300mm** ☐ Adjustable elbow ☑ Cover ☐ Cover spacer ☐ Whitout Cover **Thickness 5mm (*)**
MATERIAL	☐ Galvanized steel ☐ Stainless steel ☐ Light alloy ☑ FRP ☐ AISI 316L
SURFACE PROTECTION	Galvanized ☐ before machined (ex. with "Sendzimir" process) ☐ Hot dip Galvanized after machined - 50 µm ☐ Surface clean and polished from any welding and working residual ☐ Painting Colour: ☑ Grey RAL 7035 ☐ blue RAL 5012 ☐ Cycle:

POS.	DIMENSIONS (6)		a	b	c	d	e	f	g	h	i	l		
	Total External height	H	50	80	80									Manufacturer: Oglaend Supplier: HILTI Series: FTE80 P.O.
	Working internal width	W	50	150	200									
	Working internal width (reducer)	W1												
	DESCRIPTION	**FIG. (7)**	**QUANTITY (8)**											
1	Straight section Y = 3000 mm	A												
2	Y = mm													
3	Plane 90 degree bend	B												
4	Plane 45 degree bend	C												
	"T" junction													
5	Vertical convex 90° Bend	D												
6	Vertical concave 90° Bend	E												
7	Plane left-hand reducing section	F												
8	Plane simmetric reducing section	G												
9	Plane right-hand reducing section	H												
10		I												
11														
12														
13														
14														
15														
16														
17														
18	Horizontally hinged joint	L												
19	Vertically hinged joint	M												
20														
21	Separators													

NOTES :
6) Dimensions in millimeters
7) Reference to Sheet 9
8) For quantities please refer to sheet 9 Cable Trays Material Take-OFF
9) FRP = Fiberglass Reinforced Plastic

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CABLE TRAYS PERFORATED TYPE - FIGURES

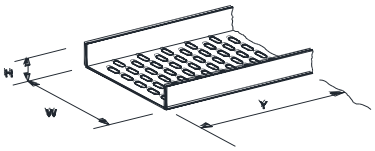


Fig. A
STRAIGHT ELEMENT

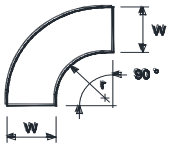


Fig. B
PLANE 90° BEND

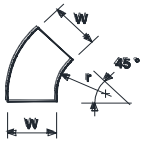


Fig. C
PLANE 45° BEND

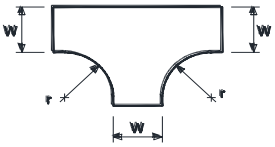


Fig. D
TEE JUNCTION

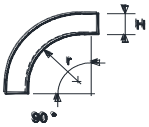


Fig. E
VERTICAL CONVEX 90° BEND

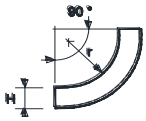


Fig. F
VERTICAL CONCAVE 90° BEND



Fig. G
PLANE LEFT - HAND REDUCING SECTION



Fig. H
PLANE SYMMETRIC REDUCING SECTION



Fig. I
PLANE RIGHT - HAND REDUCING SECTION

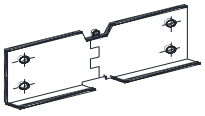


Fig. L
HORIZONTAL HINGED JOINT

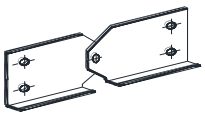


Fig. M
VERTICAL HINGED JOINT

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INSTRUMENT CABLE TRAYS MTO				
S.No	**Description**	**U.M.**	**Rev. 00**	**Rev. 01**
Perforated Cable Tray 50(W)x50(H), R=300, Grey, Complete with Cover				
1	Straight elements	m	1338	1338
2	Bends 45°	N.	-	8
3	Inside Risers 90°	N.	-	3
4	Outside Risers 90°	N.	-	14
Perforated Cable Tray 150(W)x80(H), R=300, Grey, Complete with Cover				
5	Straight elements	m	453	453
6	Bends 45°	N.	7	12
7	Bends 90°	N.	40	40
8	Inside Risers 90°	N.	18	18
9	Inside Risers 45°	N.	6	6
10	Outside Risers 90°	N.	25	25
11	Outside Risers 45°	N.	3	3
12	"T"	N.	-	3
Perforated Cable Tray 200(W)x80(H), R=300, Grey, Complete with Cover				
13	Straight elements	m	480	480
14	Bends 90°	N.	22	22
15	Bends 45°	N.	10	12
16	Inside Risers 90°	N.	6	8
17	Inside Risers 45°	N.	12	12
18	Outside Risers 90°	N.	6	14
19	Outside Risers 45°	N.	12	12
Ladder Cable Tray 300(W)x100(H)), R=300, Grey, Complete with Cover				
20	Straight elements	m	111	111
21	Bends 90°	N.	7	7
22	Inside Risers 90°	N.	8	8
23	Outside Risers 90°	N.	4	4
24	"T"	N.	3	3
Ladder Cable Tray 450(W)x100(H)), R=300, Grey, Complete with Cover				
25	Straight elements	m	18	99
26	Bends 90°	N.	-	5
27	Bends 90°, Radius 500mm	N.	2	2
Ladder Cable Tray 600(W)x100(H)), R=300, Grey, Complete with Cover				
28	Straight elements	m	171	171
29	Bends 45°	N.	3	3
30	Inside Risers 90°	N.	2	2
31	Inside Risers 45°	N.	3	3
32	Outside Risers 90°	N.	4	4
33	Outside Risers 45°	N.	3	3
34	Reducer 600X450	N.	-	1
Accessories				
35	Divider straight elements, 45(H)	m	87	120
36	Divider for bend elements, 45(H)	m	15	15
37	Divider for riser elements, 45(H)	m	15	15
38	Fixing Clamps	N.	(1)	(1)
Notes 1) Vendor shall estimate fixing clamp quantities				

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