A possible IPP connectors front view position (1)

LV1  LV3  LV5  LV7  LV9

HV

Shld1  Shld2  Shld3  Shld4

Shld5  Shld6  Shld7  Shld8

Shld9  Shld10

LV2  LV4  LV6  LV8  LV10

~430mm  ~120mm
A possible IPP connectors front view position (2)
IPP = Connector mounted on the IPP. It will connect the IPP to the T1 6\textsuperscript{th} frame.

CABLE = Removable connector. It will connect the IPP to the long HV cable on the platform.

Metallic shell must be insulated by the IPP chassis.
06/08/2008

LV Amphenol RADSOK connectors.

IPP = Connector screwed on the IPP. It will connect the IPP to the T1 6th frame.

CABLE = Removable connector. It will connect the IPP to the MARATON L.V. Power supply.
AMP D-Sub service connectors.

IPP = Connectors mounted on the IPP. They will connect the IPP to the T1 6th frame.

CABLE = Removable connectors. They will connect the IPP to the DCS and DSS long cables, and the MARATON LV Power Supply SENSE on the platform.

### DSUB-15 pins for SENSE signals.

- A = 40.0mm
- B = 35.3mm
- C = 16.3mm
- D = 17.4mm

Possible fixation points:

![Possible fixation points for DSUB-15 pins](image)

### DSUB-37 and 15 pins for DCS and DSS signals.

- A = 70.3mm
- B = 51.3mm
- C = 24.6mm
- D = 19.5mm

Possible fixation points:

![Possible fixation points for DSUB-37 and 15 pins](image)
T1 6th frame and IPP, MPO adapter with flange.

Panel cutout
# Cables.

## Cables between HF Platform and T1 6th frame.

<table>
<thead>
<tr>
<th></th>
<th>T1 - 1/4</th>
<th>T1 telescope</th>
<th>Cern Catalog</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Quantity</td>
<td>Length (m)</td>
<td>O.D.(mm)</td>
</tr>
<tr>
<td>L.V. Power</td>
<td>12</td>
<td>?</td>
<td>18.6</td>
</tr>
<tr>
<td>L.V. Sense</td>
<td>3</td>
<td>?</td>
<td>11.8</td>
</tr>
<tr>
<td>DCS</td>
<td>1</td>
<td>?</td>
<td>12.3</td>
</tr>
<tr>
<td>DSS</td>
<td>1</td>
<td>?</td>
<td>9.3</td>
</tr>
<tr>
<td>H.V. Power</td>
<td>1</td>
<td>?</td>
<td>13</td>
</tr>
<tr>
<td>Optic fibers</td>
<td>4</td>
<td>?</td>
<td>6</td>
</tr>
</tbody>
</table>

Also Optic ribbon cables for T1 internal cabling needed

Please specify the lengths between the Platform to IPP, and the IPP to T1 6th frame.
T1 internal and external Optic fiber cables distribution

T1 6th frame

T1/T2 fibers rack

L1 = ?

L2 = ?

Cable tray up to T1/T2 fibers rack

IPP

CMS disk cables groove

2m

3m

SMU

MPO F

MPO M

MPO F
T1 external L.V. power cables distribution

T1 6th frame

T1 internal cabling

L2 =?

 CMS disk cables groove

IPP

Cable tray up to the platform

Shield

L3 =?

T1 platform/rack

T1 platform/rack

MARATON

04.08.82.160.2

04.08.82.160.2
T1 : DCS–DSS–L.V. sense, cables distribution

T1 6th frame

IPP

L.V. Sense BOX

DCS-DSS BOX

Cable tray up to the platform

CMS disk cables groove

L2 =?

L3 =?

T1 6th frame

T1 platform/rack

Counting Room

04.21.48.336.5

04.21.48.314.1

04.21.44.140.2

04.21.44.140.2

04.21.44.140.2

04.21.48.314.1

04.21.48.336.5

04.21.44.140.2

04.21.44.140.2

04.21.44.140.2

Male

Female

Male

Female

Male

Female

Male

Female

Male

Female

Male