

640 channels MT-based ferrule

Project: ERICSSON – CERN (www.cern.ch)



■ ERICSSON – CERN requirements

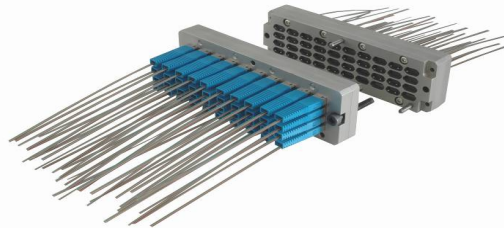
- Mating of 640 channels ribbon fiber in a very small available volume *for ATLAS project*
- Multi fiber ribbon connectors
- Non-magnetic materials (due to highly magnetic operational field, 4T)



Diamond MFS connector

■ Diamond Solution

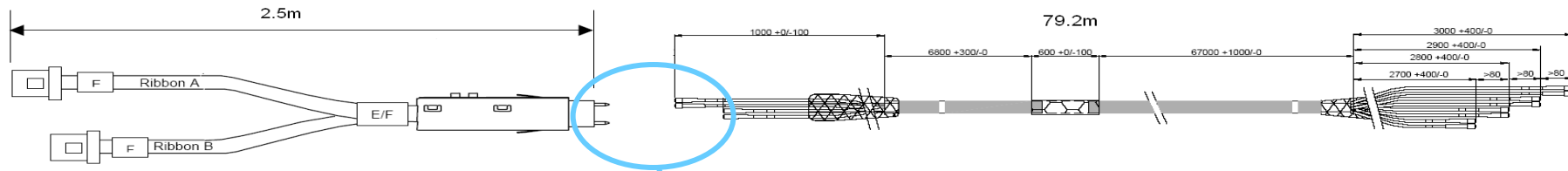
- Adapter with 40 MFS connectors (each 2x8 channels ribbon fiber)
- High density connector system: 122x37x35mm
- Aluminum Alloy 6061 used for the adapter *light and non-magnetic properties*
- MFS connectors with non-magnetic parts
- Outstanding optical values (IL Typ. 0,2 dB)
- Expandable to 960 channels (with 24channel MT based ferrules)



Typical ATLAS CERN cable configuration

40x single MFS connectors

10x dense multi ribbon cables



1x 64 channels adapter

Features - Application

■ Features

- Adapter based on DIAMOND MFS Backplane high precision mating connection
- 40 MFS connections available (4x10 rows)
- Non-magnetic materials
- High Packing density

Applications

- Radioactive environment
- Environment with high magnetic field (4T)
- Backplane and front panels
- Fan out assemblies
- Industrial