



WE'RE WELL CONNECTED

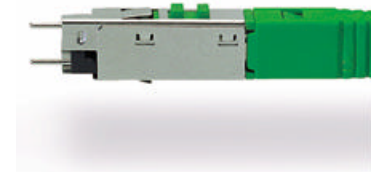
Diamond

640 channels MT-based ferrule

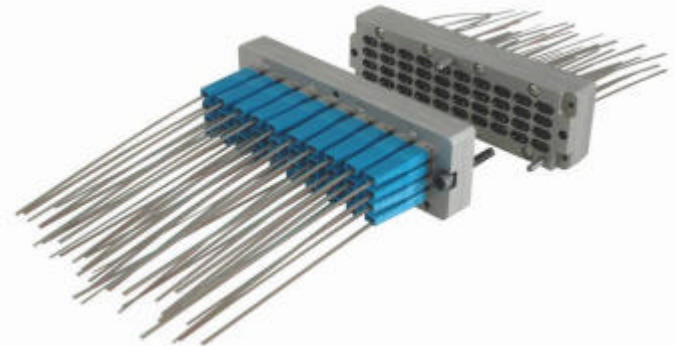


Project: ERICSSON – CERN (www.cern.ch)

- 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 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)



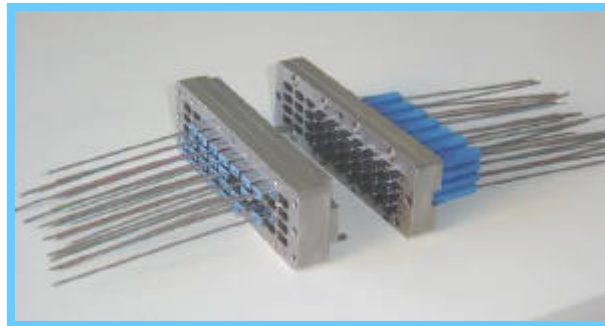
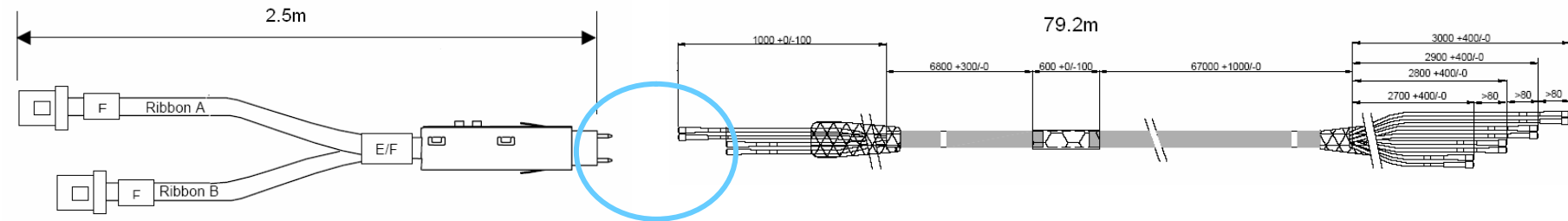
Diamond MFS connector



Typical ATLAS CERN cable configuration

40x single MFS connectors

10x dense multi ribbon cables



1x 640 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
- **Application**
 - Radioactive environment
 - Environment with high magnetic field (4T)
 - Backplane and front panels
 - Fan out assemblies
 - Industrial