

## Pre-Term and Loaded Fiber LIU Check List

**Cabinet Type** - Rack Mount or Wall Mount

**Ports** - Dictated by density

**Color** - Almond or Black

**Fiber Connector** - SC, ST, LC, MTRJ, FC

**Ports** - As requested, 616, 818, 6112, 6124

**Fiber Type** Single-mode or Multimode (62.5 micron or 50 micron)

**Pigtail Assemblies** (part number ex. **P8SC12-3M**)

**P** – Pigtail

**8 – 8** = single mode

**6** = 62.5 micron multimode

**5** = 50 micron multimode

**SC** – fiber connector type, SC, ST, LC, MTRJ, FC

**12** – number of fibers per assembly ( 6 is also an option)

**3M** – Length (3M is standard, but can also be 1M or as requested)

### **Polish**

**PC** polish is standard

**UPC** – Ultra Polish optional (P6SCUPC12-3M)

**APC** – Angled Polish, Single-mode only, SC and FC connectors  
(P8FCAPC12-3M)

**Splice Tray Kits** - Kits are based on 24 slices per tray (ex. R24S is used in RTC18x cabinets)

## **Exceptions:**

### **Port Density:**

Example; 24 ports in a rack mount cabinet can be achieved in either a RTC18 or in a RTC36. If not requested up front, lean toward the RTC36, this reduces congestion in the cabinet and allows for future adds.

### **High Density Applications**

Example; RTC144X288, consideration must also be given to the splice trays. The splice tray kits were designed for standard number of ports and splices. High density applications like this example would call for 1 – R144TS kit and 6 – thin splice trays. The R144TS kit has 2 transition trays and 6 – thin splice trays in it. There is limited vertical room for the transition trays and splice trays on each level. Additionally a special length threaded stud for securing the trays is required.

### **Polish**

*PC* polish is standard and is most widely accepted.

*UPC* is for Ultra polish which offers a better polish, which reduces back reflection, therefore better performance.

*APC*, angled polish, single-mode applications, also provides the maximum contact area between the mating fibers. This is the best achievable performance of a non-fused connection.

### *Angled Polish Connectors and Couplers*

Single-mode applications only. The connectors are unique for angle polishing and a color-coded green to denote angled polish. The couplers in the adapter plates are actually the same as for single-mode, but are also colored green to denote angled polish.

### **Suggestions:**

Use the single/multimode adapter plates when using 50 micron multimode fiber. (ex. 616ST) The ferrule diameter is held to a closer tolerance than for a multimode coupler, but not a close as the single-mode couplers. The 50 micron fiber is 20% smaller in diameter than the 62.5 micron and requires better alignment for the best performance.