

## Fiber Optic Breakout / Fanout Solutions

Opticonx offers a broad portfolio of LightTube™ fiber optic breakout and fanout kits designed to support the direct termination of the optical fibers from fiber optic cable. Our breakout kits offer secure housing for the exposed optical fibers and a firm grip between connectors and optical fibers, preventing fiber damage.

**Sizes range from 4 fibers to 6,912 fibers.**

LightTube™ breakout and fanout kits can be used to terminate both industry standard (ST, SC, LC, MPO, MTP), and VSFF (CS, SN, MMC, MDC), fiber optic connectors.



### Our kits are designed to quickly and easily breakout most industry-standard cable constructions:

- ◆ Any manufacturer
- ◆ Loose tube – stranded & micro distribution
- ◆ Loose tube unitube/central tube
- ◆ All ribbon cables – round, rollable, flat or oval
- ◆ 200µM, 250µM buffered fiber to 900 µM OD fiber
- ◆ 200µM, 250µM or 900 µM buffered fiber to 2.0 or 3.0mm OD fiber

... all for direct termination with industry-standard connectors.



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# Fiber Optic Breakout / Fanout Solutions

**SPK Series Splitter Kits** are designed to quickly and easily breakout loose tube stranded & micro distribution, loose tube uni-tube/central tube and flat ribbon cables containing 200µM or 250µM buffered fiber for direct termination with industry standard connectors. These kits route individual fibers into individual 900µM, Hytrel®, color coded buffer tubes via a compact protective housing. Three types are available.

- ◆ **SPKL-Series** for Stranded Core Loose Tube Cables
  - 2, 4, 6, 8, 12 or 16 fiber tubes
- ◆ **SPKU-Series** for Uni-tube or Central Tube Cables
  - 4, 6, 8, 12, 16, 24 or 36 fiber tubes
- ◆ **SPKR-Series** for flat Ribbon Cables
  - 4, 6, 8, 12 or 16 fiber tubes



**BOKL Series Breakout Kits** are designed to provide a 2.0mm or 3.0mm OD direct termination solution for cable containing 200µM or 250µM buffered fiber. They can do up to 24 fibers with 2.0mm OD or up to 12 fibers with 3.0mm OD PVC color-coded tubing.

- ◆ **2.0mm OD**
  - 6, 8, 12, 12 duplex or 24 fiber tubes
- ◆ **3.0mm OD**
  - 6,8 or 12 fiber tubes



**BOKP Series Breakout Kits** are designed to provide a 2.0mm or 3.0mm OD direct termination solution for cable containing 900µM buffered fiber. They can do up to 24 fibers with 2.0mm OD or up to 12 fibers with 3.0mm OD PVC color-coded tubing.

- ◆ **2.0mm OD**
  - 6, 8, 12 or 24 fiber tubes
- ◆ **3.0mm OD**
  - 6,8 or 12 fiber tubes

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# Fiber Optic Breakout / Fanout Solutions

**UBK Series Breakout Kits** are designed to provide a 3.0mm direct termination solution for high fiber count, 200µM or 250µM buffered, round /rollable /spider web ribbon-style, unitube cables and MTP®/MPO connectors.

- ◆ 12-24 fibers
  - 1 x 12 or 2 x 12 fiber bundles
- ◆ 36-144 fibers
  - 3 x 12, 4 x 12, 6 x 12, 8 x 12 or 12 x 12
- ◆ 288-864 fibers
  - 24 x 12, 36 x 12 or 6 x 144



UBK-12



UBK-144



UBK-288

**UBR Series Breakout Kits** are designed to provide a 4.4 x 2.3mm OD direct termination solution for high fiber count, 200µM or 250µM buffered, flat / oval ribbon-style, unitube cables and MTP®/MPO connectors.

- ◆ 12-24 fibers
  - 1 x 12 or 2 x 12 fiber bundles
- ◆ 36-144 fibers
  - 3 x 12, 4 x 12, 6 x 12, 8 x 12 or 12 x 12
- ◆ 288-864 fibers
  - 16 X 12, 18 X 12, 24 x 12, 36 x 12 or 12 x 72



UBR-24



UBR-144



UBR-288

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# Fiber Optic Breakout / Fanout Solutions

**XBR Series Breakout Kits** are designed to provide identification, protection, routing and management to ultra-high density, high fiber count “round/rollable/spider web” and “flat/oval” ribbons — Up to 1,728 fibers. XBR kits route multiple 12 fiber bare ribbons in groups of 12 (144 fibers total) into individual, color coded 6.8 x 5.2mm OD PE tubes via a plastic protective housing. The color coded, protected, fiber bundles can then be routed to splice trays or even directly terminated with MTP/MPO connectors using Opticonx UBK or UBR Series Breakout Kits.

- ◆ 288-1,728 fibers
  - 2 x 144, 3 x 144 or 4 x 144 fiber bundles
  - 6 x 144, 8 x 144 or 12 x 144 fiber bundles



XBR-1728

**XBR+ Series Breakout Kits** are designed to provide identification, protection, routing and management to ultra-high density cable, high fiber count “round/rollable/spider web” and “flat/oval” ribbons — Up to 6,912 fibers. XBR+ kits route multiple 144 fiber subgroups into individual, color coded 6.8 x 5.2mm OD PE tubes via a metallic protective housing. The color coded, protected, fiber bundles can then be routed to splice trays or even directly terminated using Opticonx UBK or UBR Series Breakout Kits.

- ◆ 288-6,912 fibers
  - 2 x 144, 4 x 144, 6 x 144 or 8 x 144 fiber bundles
  - 12 x 144, 24 x 144 or 48 x 144 fiber bundles



XBR+-1728

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## Fiber Optic Breakout / Fanout Solutions

### Available Tubing Colors:

BL = Blue	BR = Brown	RD = Red	VI = Violet	NA = Natural	MG = Magenta
OR = Orange	SL = Slate (Gray)	BK = Black	PK = Pink	LM = Lime	TN = Tan
GR = Green	WH = White	YE=Yellow	AQ = Aqua	OL = Olive	EV = Erika Violet

### Contract Manufacturing:

Opticonx offers a variety of optical contract manufacturing services to meet customer requirements including:

- ◆ Custom configuration - tubing color, tubing length
- ◆ Private labeling
- ◆ Custom labeling
- ◆ Custom packaging
- ◆ Blind Shipping



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