

FieldSmart Recommendations

Cost-Saving Recommendations



Clearfield Cost-Saving Recommendations

Inside Plant

Using the simpler deployment methodologies made possible through the Clearfield design, service providers can save on an 864-port count frame between seven and eight thousand dollars—that's anywhere from \$9.35 to \$9.68 per port solely in material reductions. Additional costs savings through a reduction in real estate will also be substantial but are difficult to calculate.

| Cost Saving Potential (through material reductions) in a 864 On-Frame splicing using FieldSmart from Clearfield | | | |
|---|-----|------------|-------------------|
| | Qty | Price Ea. | Ext. |
| Splice Deck, 23", 144 splice capacity, 6", splice trays loaded | 6 | \$1,300.00 | \$7,800.00 |
| Distribution Cable, 12 Tight Buffered, 72 x 3 Meters | 216 | \$1.30 | \$280.80 |
| Total | | | \$8,080.80 |

*Note - 24" of rack space saved eliminating splice tray

| Cost Savings Potential (through material reductions) in a 864 Off-Frame splicing using FieldSmart from Clearfield | | | |
|---|-----|------------|-------------------|
| | Qty | Price Ea. | Ext. |
| Fiber Entrance Cabinet, 864 total splice Capacity | 1 | \$2,695.00 | \$2,695.00 |
| Splice Trays - 24F | 36 | \$30.00 | \$1,080.00 |
| Distribution cable, 144 Tight Buffered, 100' | 6 | \$765.00 | \$4,590.00 |
| Total | | | \$8,365.00 |

Outside Plant

Using the simpler deployment methodologies made possible through the Clearfield design, service providers can save more than \$900 per cabinet—at 288 ports per cabinet, that's more than \$3 per port solely in material and labor reductions.

| Cost Savings Potential (Through material reductions) in a 288-port count fiber distribution cabinet using FieldSmart from Clearfield | | | |
|--|-----|----------|----------|
| | Qty | Price | Extended |
| OSP Cable | 100 | \$1.35 | \$135.00 |
| Splice Closure | 1 | \$350.00 | \$350.00 |
| Fiber Splice Trays - Distribution | 4 | \$20.00 | \$80.00 |
| Fiber Splice Trays - Feeder | 1 | \$10.00 | \$10.00 |

| Material cost savings through size reduction | | | |
|--|-----|------------|----------|
| | Qty | Price | Extended |
| Hand-hole - 60 inch (Pencell PEM-3660-APA-SPL) | 1 | \$1,075.00 | |
| Hand-hole - 48 inch (Pencell PEM-3648-APA-SPL) | 1 | \$817.00 | |
| Difference between the two: | 1 | \$258.00 | \$258.00 |

| Labor savings using FieldSmart from Clearfield | | | |
|---|------|---------|-----------------|
| | Qty | Price | Extended |
| Cable Prep | 1 | \$65.00 | \$65.00 |
| *Estimated Labor savings for OSP prep. Strip, buffer tube access, Clean 250UM, 60 minutes factory environment | | | |
| Trouble shooting entry of splice closure | 0.33 | \$65.00 | \$21.45 |
| *Estimated at minimum 1 entry during lifetime | | | |
| Total Material and Labor Savings using Clearfield Patch & Splice | | | \$919.45 |

Access

Using the simpler deployment methodologies made possible through the Clearfield design, service providers can save more than \$28 per cabinet—serving four homes per pedestal, that's a savings of \$7 per home connected.

| Cost of the Simpler Alternative | | | |
|--|-----|-----------|-----------------|
| | Qty | Price Ea. | Ext. |
| Pedestal, splice - Avg feed 2-4 Homes | 1 | \$125.00 | \$125.00 |
| Ruggedized SC APC, Single fiber flat drop, toneable, Pigtail, 100' | 4 | \$38.00 | \$152.00 |
| Total | | | \$277.00 |

| Traditional Costs | | | |
|--|-----|-----------|-----------------|
| | Qty | Price Ea. | Ext. |
| Pedestal - closure within closure | 1 | \$145.00 | \$145.00 |
| HFOC SC APC, Single fiber flat drop, toneable, Pigtail, 100' | 4 | \$40.00 | \$160.00 |
| | | | \$305.00 |

| Cost Savings per Pedestal | |
|---------------------------|----------------|
| | \$28.00 |

| Access Network Savings | Savings | Homes | |
|------------------------|---------|-------|--------------|
| | \$19 | 5000 | \$95,000.00 |
| | \$19 | 25000 | \$450,000.00 |
| | \$19 | 50000 | \$950,000.00 |

Summary

At Clearfield, we set out to enable service providers to build the most reliable fiber networks possible. That's why our fiber management and other passive connectivity solutions are designed to the full suite of Telcordia Standards and listed with the RUS. But we also recognize that the delivery of broadband connectivity is a business—and a business in which cost to subscriber ratios are constantly scrutinized and every penny-per-home spent must be evaluated for the return on investment.

Through the use of simpler design principles made possible by the Clearview Cassette and the FieldSmart product line, this guide documents how it is possible to save more than \$9 per home in the central office, \$3 per home at the outside plant cabinet and \$7 per home at the pedestal - that's \$19 per home served.

No matter the size of your network, those numbers really add up. Small communities of no more than 5,000 homes can recognize savings of nearly \$100,000 while nearly a million dollars of savings is possible for larger communities of 50,000.