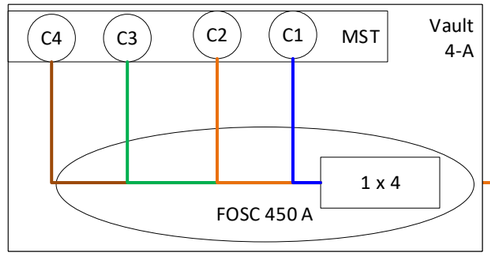
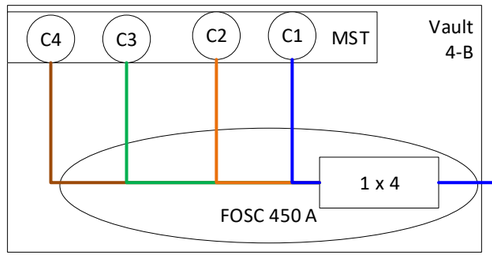
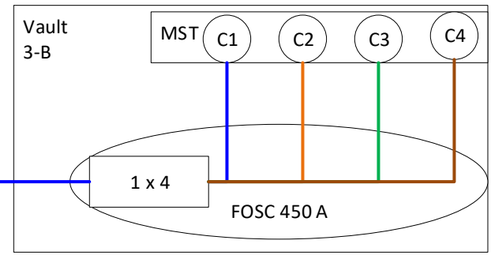
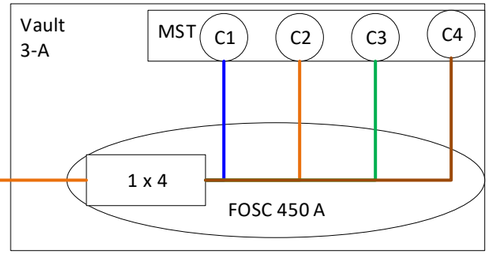
Cherry Capital Connection Design

Situation: Mainline fiber in conduit. Each Vault will contain 100 feet of slack. Fosc 450A with a 1 x 4 splitter to manage a 4 port MST terminal. Each group of 4 vault (2 to the left to the right are managed by another 1 x 4 splitter or 16 households. These two groups are connected to a 1 x 2 splitter using one strand of fiber to the cabinet. Strand 1, 2 are reused per route to splitter. Requiring only three strand of fiber to manage all grouping of 32 or 16 customers and 1 strand to cabinet









2

2

1

1

1 x 4
Housed in FOSC 450 – B or A
A 1 x 16 OLT ratio you can use an existing FOSC450 they can handle multiple splitters in the same unit

12, 10, 8, 6, 4

11, 9, 7, 5, 3

If you want a 1 x 32 OLT Ratio then run 1 x 4 splitters to a 1 x 2 in the cabinet

In cabinet so no strands

Cabinet
LGX

80 customers

320 customers

80 customers

Total of 160 when using a 1 x 4

1 x 4
Housed in FOSC 450 – B or A
A 1 x 16 OLT ratio you can use an existing FOSC450 they can handle multiple splitters in the same unit

If 1 x 16 go direct to head end

1 x 16 – 1 x 32 use
12, 11, 10, 9, 8, 7, 6, 5, 4, 3

Cable marker	Strand to Cabinet
Blue - 1 = North	12
Orange – 2 = East	11
Green – 3 = South	10
Slate – 5 = West	9
	8
	7
	6
	5
	4
	fiber strand to Port in Cabinet

Note when sharing with others:

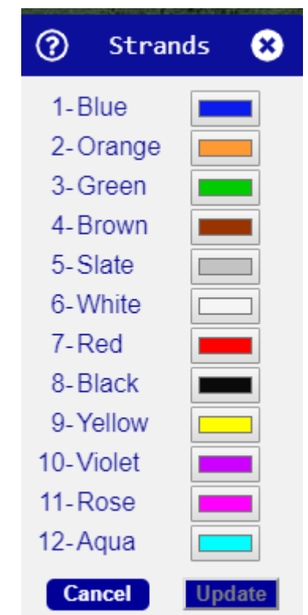
You can use a OFDC -4A with a 1-4 splitter

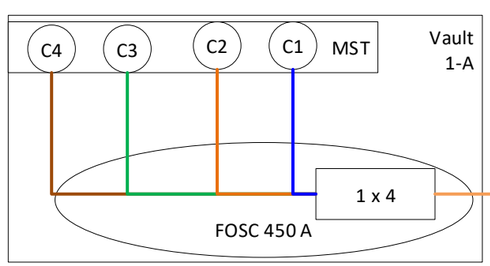
in place of a

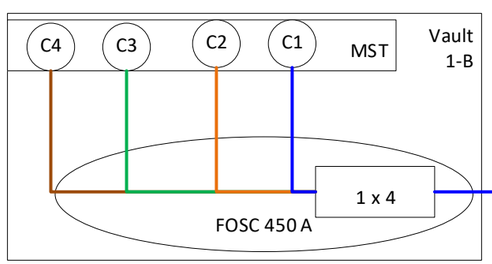
combo FOSC 450 A & MST 4 port terminal with a 1-4 splitter

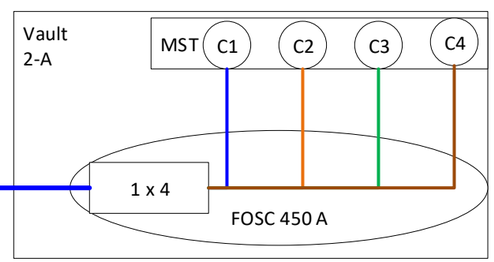
Each design uses a different drop cable we started with the FOSC 450 A/MST combo but have moved to the OFDC-4A to save 50% per vault

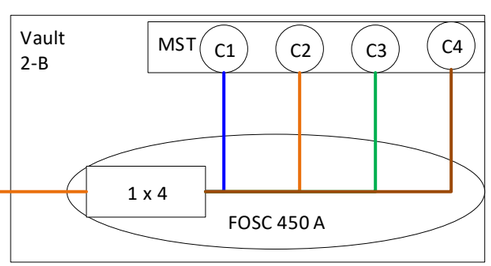
We favor the 1-16 split











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2