3M Connectivity Solutions for xDSL Deployment

The 3M™ Integrated Splitter Block BRCP is the latest generation of MDF terminal blocks developed by 3M, specifically designed for xDSL deployment. The BRCP splitter block can be used for a range of equipment deployments, including new DSLAM/MSAN/BBDLC deployment in a central office and remote sites, as well as upgrade or migration of legacy ATM DSLAMs to triple play IP DSLAMs, MSANs and BBDLCs.

Typical DSLAM/MSAN/BBDLC deployment practice

DSLAM/MSAN/BBDLC deployment practice with BRCP block
New Wiring Deployment Practice Can Yield True Capex Savings

POTS splitters are traditionally housed adjacent to or inside DSLAM/MSAN/BBDLC equipment. 3M has integrated them into the BRCP block for potential significant savings to service providers:

- Reduced Components – Racks, splitter shelves, patch cables, MDF blocks, connectors, cable assemblies and accessories can be eliminated.
- Reduced Installation Costs – 50 percent fewer cables between DSLAM/MSAN/BBDLC and MDF and fewer connectors and accessories.
- Increased Density at the MDF in overhead cableways and cable conduits, and in racks and floor space.

POTS splitters at the MDF can extend the xDSL signal reach into the network by up to 1,200 feet in some COs and alleviate the need for remote terminal deployment.

New Wiring Deployment Practice Can Lead to Increased Capex Savings

The chart below highlights typical capex savings that can be realized by using the 3M™ Integrated Splitter Block BRCP in a central office DSLAM/MSAN/BBDLC deployment for 100,000 subscribers with an hourly labor rate at US$60.00.

<table>
<thead>
<tr>
<th>3M Value</th>
<th>Average cost ($USD) of traditional DSLAM/MSAN/BBDLC with splitters deployment</th>
<th>Average cost ($USD) of DSLAM/MSAN/BBDLC deployment with 3M™ Integrated Splitter Block</th>
<th>Difference in %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Materials*</td>
<td>1,875,000</td>
<td>1,291,295</td>
<td>-31.1</td>
</tr>
<tr>
<td>Installation**</td>
<td>946,429</td>
<td>464,286</td>
<td>-50.9</td>
</tr>
<tr>
<td>Total Capex</td>
<td>2,821,429</td>
<td>1,755,580</td>
<td>-37.8</td>
</tr>
<tr>
<td>Capex per subscriber</td>
<td>28</td>
<td>18</td>
<td>-37.8</td>
</tr>
</tbody>
</table>

* Based on typical market data, actual cost may vary

True Capex Savings
Flexible Operation Improves Opex and Service

Using field-manageable single line splitter modules, the 3M™ BRCP Splitter Block enables individual customer-centric line management at the central office and remote terminal MDFs.

- Co-location with other service providers’ equipment uses numerous MDF blocks (see below) to support wiring and migration and can require use of toll or co-location IDFs/MDFs. Different customers (residential or business) and multiple services (POTS, ADSL, ADSL2+, g.SHDSL, VoIP, etc.) create costly labor-intensive migrations during shifts between services and service providers with an increased risk of disrupting service.

- Faulty splitters of the BRCP splitter block can be replaced individually rather than replacing the full splitter board in the event of a single faulty port. BRCP splitter modules can be replaced without service interruption while keeping the POTS line active on the line being serviced.

- Upgrade or migration of legacy ATM DSLAMs to triple play IP DSLAMs/MSANs/BBDLCs can be very costly. With the BRCP splitter block, voice and line cables of first generations DSLAMs can be re-terminated for new DSLAMs/MSANs/BBDLCs (used as data cables) avoiding recabling and cable movement, allowing reuse of existing racks while increasing density.
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