

DMSI

High-Density Cable Assemblies

1 to 6,192 Fibers — If It's Made, We Can Terminate It

DMSI manufactures cable assemblies across the full range of fiber counts, connector types, and cable constructions. Whether your customer needs a standard duplex patch cord or a 6,912-fiber trunk for a hyperscale data center backbone, DMSI has the manufacturing capacity to deliver.

Fiber Count Capability

Standard	High Density	Ultra High	Hyperscale
1–144 fibers	288–576 fibers	864–1,728 fibers	3,456–6,912 fibers

Large-Scale Trunk Infrastructure

- 576-fiber trunks
- 864-fiber trunks
- 1,728-fiber trunks
- 3,456-fiber trunks — rollable ribbon, 190/200µm single-mode
- 6,912-fiber trunks — designed for hyperscale data center backbone

Connector Types Supported

LC	Standard duplex; most common enterprise and data center patch cord
LC Uniboot	Space-saving; single jacket with both fibers — ideal for high-density patching
MTP / MPO	Multi-fiber push-on; MTP12, MTP16, MTP24, MTP32; USConec brand preferred
MMC	Next-gen VSFF; MMC12, MMC16, MMC24, MMC32 — USConec certified
MDC	Mini duplex VSFF; proven 1.25mm ferrule technology
SC	Subscriber connector; common in telecom and campus environments
ST	Straight tip; legacy enterprise and industrial installations
CS (Senko)	Very small form factor; Senko brand CS connector supported

Cable Types

Tight Buffer	Indoor distribution; easy to connector-terminate; ideal for patch cords and short runs
Micro Distribution (250µm)	Ultra-low diameter; maximum density in conduit; common in data center tray
Dry Loose Tube	Outdoor and plenum runs; gel-free for clean installation
Ribbon	High fiber count; rollable ribbon up to 3,456 strands in 190/200µm single-mode

Optical Fiber Options

Corning Fiber (Standard Offering)

- SMF-28 Ultra (OS2) — industry-standard single-mode
- SMF-28 Contour (OS2) — optimized for tight bend radius installations
- ClearCurve LBL and ZBL — increased bend ratings for challenging pathways
- ClearCurve OM2, OM3, OM4, OM5 — multimode; OM5 supports wideband applications

Additional Fiber Partners

- Prysmian, AFL, Sumitomo, BerkTek/Leviton — available upon request

All DMSI cable assemblies are tested to IEC standards using Santec, VIAVI, Sumix, and Data-Pixel equipment — duplicated in both U.S. and Philippines facilities.