

Global Support Organization

OM4 / **SIGNATURE CORE™**

Fiber Optic Cabling System
Fiber Future and Beyond

**Business
Success Case**

PANDUIT®
infrastructure for a connected world

Global Support Organization



Outcome

The OM4 Signature Core Fiber Optic Cabling allows the Global Support Organization to:

- Process over 20 terabytes of data per day faster and error free at each facility
- Save time and costs with fast and efficient installation
- Keep operations moving with little downtime as personnel only need to train on one hardware solution due to interchangeability of equipment



Solution

Our expert advice: no need to migrate to 40G using 40GBASE-SR4 (8 fibers) to the desktop, rather use 50GBASE-SR (duplex) for optimal results. To achieve this goal, the complete solution included:

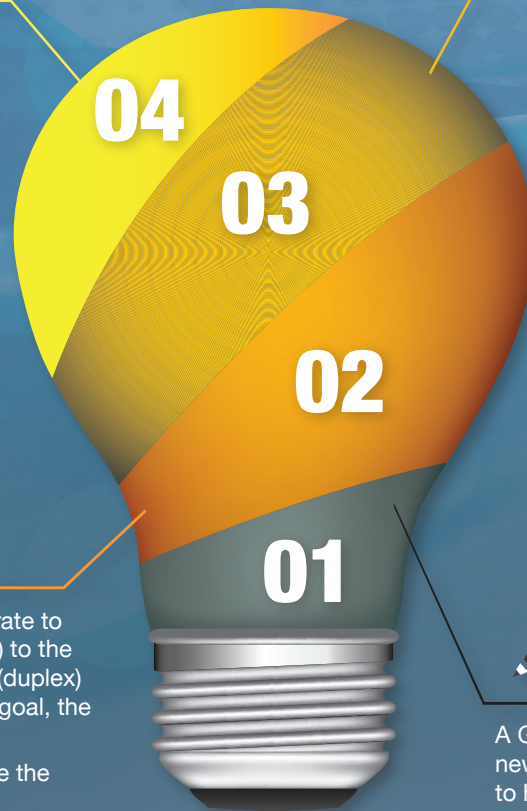
- For ultra low loss performance the OM4 Signature Core™ Fiber Optic Cabling System
- For high density the HD Flex™ Fiber Cabling System
- To migrate to higher speeds the PanMPO™ Connector Solution
- For enhanced cable flexibility a custom Multi-User Telecommunications Outlet (MUTOA)



Side-By-Side

Success included a world's first side-by-side 100GBASE-SR4 field test comprised of OM4 Signature Core Cabling and standards based OM5 using non-standards based 100Gb/s SWDM modules. The results demonstrated that OM4 Signature Core Cabling is superior in performance and reliability.

- Tests demonstrated error free transmission of 100Gb/s over four parallel fiber lanes for distances up to 246m
- Longest possible link measured from the data center to the operational rooms was 202m, Panduit fiber passed with no errors
- The Global Support Organization acknowledged OM4 Signature Core Cabling is as good as OM5 at 100G SWDM4 applications and superior for all current standards-based applications



Situation

A Global Support Organization required new high performance optical solutions to handle extremely high data rates with zero error to improve system speed and channel reliability of mission critical systems within two co-located, globally networked facilities (84,000 ft² and 85,000 ft²). The solution needed to seamlessly support legacy systems and ensure full migration capabilities for future application demands.

Push the Limits with the OM4 Signature Core™ Fiber Optic Cabling System

Outperforms all standard multimode fibers at 850nm

Extend reach by 20% compared to standards defined OM4

PANDUIT®

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