

TRUNK



| General Specifications | | | | | | | | | | | | | |
|---|--|---------------------------------|---------------------------|--|---|-------------------------------------|--------------------------|-----------------|--------------------------|--|---------------------------|--|---------------------------|
| Product Type | Fiber Assemblies | | | | | | | | | | | | |
| Fiber Types | Available in: <ul style="list-style-type: none"> 50/125µm OM5 (TIA/EIA-492AAAE, Lime Green) 50/125µm OM4 (TIA/EIA-492AAAD, Aqua / Erika violet) 50/125µm OM3 (TIA/EIA-492AAAC-B, Aqua) 50/125µm OM2 (TIA/EIA-492AAAB-A, Orange) 62.5/125µm OM1 (TIA/EIA-492AAAA, Orange) 9/125µm OS2 (TIA/EIA-492CAAB, Yellow) | | | | | | | | | | | | |
| Fiber Style | High Density Micro Distribution Micro Distribution (2.0 mm 12 Fiber Sub-Groups)* | | | | | | | | | | | | |
| Fiber Count | <table border="1"> <tr> <td>12</td> <td>24</td> <td>24</td> <td>36</td> <td>48</td> <td>72</td> <td>96</td> <td>144</td> </tr> </table> | 12 | 24 | 24 | 36 | 48 | 72 | 96 | 144 | | | | |
| 12 | 24 | 24 | 36 | 48 | 72 | 96 | 144 | | | | | | |
| Diameter (mm) | <table border="1"> <tr> <td>3.0</td> <td>3.0</td> <td>6.3</td> <td>6.3</td> <td>6.6</td> <td>8.0</td> <td>9.3</td> <td>10.6</td> </tr> </table> | 3.0 | 3.0 | 6.3 | 6.3 | 6.6 | 8.0 | 9.3 | 10.6 | | | | |
| 3.0 | 3.0 | 6.3 | 6.3 | 6.6 | 8.0 | 9.3 | 10.6 | | | | | | |
| <i>*Note: Dual wall heat-shrink add on 2.0 Non-MTP(MPO) sub-groups for increased durability.</i> | | | | | | | | | | | | | |
| Jacket Type | Plenum (CMP, OFNP) (Other jacket styles available upon request) | | | | | | | | | | | | |
| Connector Type | All standard connector types (Special connectors available upon request) | | | | | | | | | | | | |
| Optical Fiber Utilized* | Corning® ClearCurve® Multimode and Corning® SMF-28® Bend-Insensitive Fiber is used by default <i>*Note: This is referencing the actual optical fiber glass and not the manufacturer who jacketed the fiber.</i> | | | | | | | | | | | | |
| Fiber Attenuation | <table border="1"> <tr> <th>Multimode (OM1,OM2,OM3,OM4,OM5)</th> <th>Single mode (OS2)</th> </tr> <tr> <td>≤3.0dB/km @ 850nm (0.4dB per 100m)</td> <td>≤0.4dB/km @ 1310nm</td> </tr> <tr> <td>≤1.0dB/km @ 1300nm (0.2dB per 100m)</td> <td>≤0.3dB/km @ 1550nm</td> </tr> </table> | Multimode (OM1,OM2,OM3,OM4,OM5) | Single mode (OS2) | ≤3.0dB/km @ 850nm (0.4dB per 100m) | ≤0.4dB/km @ 1310nm | ≤1.0dB/km @ 1300nm (0.2dB per 100m) | ≤0.3dB/km @ 1550nm | | | | | | |
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| Polarity | <table border="1"> <tr> <th>Duplex Trunk Assemblies</th> <th>MTP(MPO) Trunk Assemblies</th> </tr> <tr> <td>A-A or A-B (Field Reversible Polarity LC) (Reversible LC connectors are standard)</td> <td>Type A (Straight), Type B (Flipped), Type C (Crossed-Pairs)</td> </tr> </table> | Duplex Trunk Assemblies | MTP(MPO) Trunk Assemblies | A-A or A-B (Field Reversible Polarity LC) (Reversible LC connectors are standard) | Type A (Straight), Type B (Flipped), Type C (Crossed-Pairs) | | | | | | | | |
| Duplex Trunk Assemblies | MTP(MPO) Trunk Assemblies | | | | | | | | | | | | |
| A-A or A-B (Field Reversible Polarity LC) (Reversible LC connectors are standard) | Type A (Straight), Type B (Flipped), Type C (Crossed-Pairs) | | | | | | | | | | | | |
| Testing | <table border="1"> <tr> <th>DCS</th> <th>Return Loss*</th> <th>Insertion Loss</th> </tr> <tr> <td rowspan="4">100% factory tested (95% pass rate on 1st pass) and recorded by serial number. <i>*Note: Return loss is standard on singlemode cable assemblies greater than 3 meters.</i></td> <td>UPC (SM) ≤-55dB</td> <td>LC-MM ≤0.15dB/mated pair</td> </tr> <tr> <td>APC (SM) ≤-60dB</td> <td>LC-SM ≤0.25dB/mated pair</td> </tr> <tr> <td></td> <td>MTP-MM ≤0.25dB/mated pair</td> </tr> <tr> <td></td> <td>MTP-SM ≤0.35dB/mated pair</td> </tr> </table> | DCS | Return Loss* | Insertion Loss | 100% factory tested (95% pass rate on 1st pass) and recorded by serial number. <i>*Note: Return loss is standard on singlemode cable assemblies greater than 3 meters.</i> | UPC (SM) ≤-55dB | LC-MM ≤0.15dB/mated pair | APC (SM) ≤-60dB | LC-SM ≤0.25dB/mated pair | | MTP-MM ≤0.25dB/mated pair | | MTP-SM ≤0.35dB/mated pair |
| DCS | Return Loss* | Insertion Loss | | | | | | | | | | | |
| 100% factory tested (95% pass rate on 1st pass) and recorded by serial number. <i>*Note: Return loss is standard on singlemode cable assemblies greater than 3 meters.</i> | UPC (SM) ≤-55dB | LC-MM ≤0.15dB/mated pair | | | | | | | | | | | |
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| | | MTP-MM ≤0.25dB/mated pair | | | | | | | | | | | |
| | | MTP-SM ≤0.35dB/mated pair | | | | | | | | | | | |
| Labels | Standard labels on each end that contain the DCS Logo, part number/length, description and serial number. (Additional custom labeling available upon request.) | | | | | | | | | | | | |

Application

Data Centers, CATV (Cable Television), telecommunication networks, computer fiber networks and fiber test equipment, FTTH (Fiber to The Home), LAN (Local Area Network), FOS (fiber optic sensor), Fiber Optic Communication System, etc.

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WARRANTY INFORMATION



FIBER OPTIC ASSEMBLIES – TRUNKS, JUMPERS AND CASSETTES

Data Center Systems provides a twenty-five (25) year warranty on the quality and workmanship of all its fiber optic assemblies.

COPPER ASSEMBLIES – BUNDLES, JUMPERS AND PATCH PANELS

Data Center Systems provides a twenty-five (25) year warranty on the quality and workmanship of all our installed complete solution provided copper products.

Data Center Systems provides a one (1) year Standard Limited Product Warranty on any copper bundles, jumpers or patch panel products sold without installation by DCS.

WARRANTY TERMS AND CONDITIONS

Warranty applies to all installations performed by DCS Technicians or DCS certified contractors. This Warranty does not apply to Non-Certified Installations. Non-Certified installations are defined as installations not performed by a DCS Technician or DCS certified contractor. In order for this warranty to be valid on fiber optic assemblies, the product must be inspected and tested by the contractor/installer to identify damage during shipping, quality problems, workmanship issues or continuity defects prior to the products being installed.

DCS retains the right to refuse any warranty claims if questionable installation practices have been identified by the contractor/installer. DCS is not responsible for improper care. DCS retains the right to refuse warranty claims if questionable fiber and/or copper management practices are identified. Once the end user has accepted the initial installation as complete, the responsibility for proper care belongs to the end user.

| | |
|---------------------------------|--|
| QUALITY | Defined as the quality of the components used by Data Center Systems in the manufacturing process. All components will be functional and meet the industry standards. |
| WORKMANSHIP | Defined as the procedures and processes used by Data Center Systems to assemble components into finished goods. |
| INSTALLATION | Physical installation of fiber optic cabling and associated fiber optic infrastructure such as: patch panels, cabinets, etc. |
| REPLACEMENT OF MATERIALS | Data Center Systems tests and documents all materials to meet stringent operating specifications prior to shipping for delivery or installation to customer sites. Any materials deemed defective or inoperable, per warranty terms above, will be replaced no later than five (5) days from notification and testing of such materials. |

Data Center Systems (DCS) designs, manufactures and installs unique products and solutions specifically developed for the physical layer of connectivity for all enterprise data center environments. DCS’ solutions address our customers’ specific needs while incorporating our expert understanding of enterprise protocols, equipment, connectivity and next-generation standards, and technology preparedness with the management and documentation necessary to future-proof these increasingly complex environments. Many of the world’s largest financial, telecommunications and retail organizations partner with DCS to build, manage and evolve their mission-critical data centers.

DCS is registered as an ISO 9001:2015 Standard Company, ensuring that our business operations conform to internationally accepted quality standards for production, installation and support.

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