MHD-MODA



Hardened Multifiber Optical Connector (HMFOC) cable assembly, HMFOC jack to stub, 12-fiber

- Hardened connectors are factory-terminated and environmentally sealed for use in optical drop cable deployments
- Hardened drop cables incorporate hardened connector technology that is designed to withstand the rugged outside plant environment
- Hardened drop cables simplify installation and maintenance by reducing splicing requirements in the distribution portion of the network
- *Product complies with the Build America, Buy America Act (BABAA) requirements of the Infrastructure Investment and Jobs Act of 2021 (Pub. L. 117-58, §§ 70901-70953), or is the subject of a waiver approved by the Secretary of Commerce or designee. Compliance requirements and waiver applicability vary based on government funding program. Check the laws and regulations for your specific program.

Product Classification

Regional Availability

Asia | Australia/New Zealand | EMEA | Europe | Latin America | North

America

Product Type Fiber drop cable assembly

Product Series MHD

Government Funding

Build America Buy America (BABA) compliant*

General Specifications

Cable Type Dielectric - Flat

Connector A, quantity

Color, boot A Black
Color, connector A Black

Interface, Connector A Hardened multi-fiber (HMFOC) jack

Interface Feature, connector A Male | Pinned

Interface, Connector B Unterminated

Jacket Color Black

Total Fibers, quantity 12

Dimensions

Cable Assembly Length Range (m) 1 - 900

Cable Assembly Length Range (ft) 50 - 2000

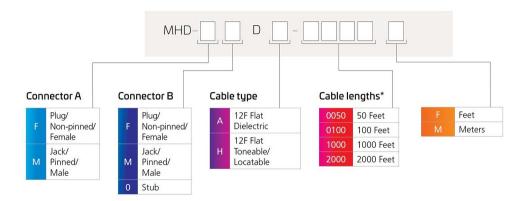
COMMSCOPE®

MHD-MODA

Cable Outer Diameter

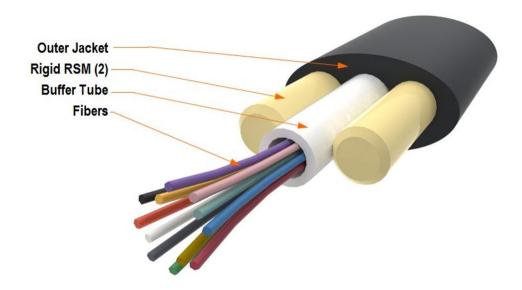
4.3 x 8.0 mm (0.17 x 0.31 in)

Ordering Tree



^{*} Cable Length shown as an example, additional cable lengths available upon request up to 2,000 ft. (600 m).

Representative Image



Mechanical Specifications

Minimum Bend Radius, loaded 86

Minimum Bend Radius, unloaded

Tensile Load, long term, maximum

Tensile Load, short term, maximum

86 mm | 3.386 in

81 mm | 3.189 in

400 N | 89.924 lbf

1334 N | 299.895 lbf



MHD-MODA

Optical Specifications

Fiber Mode Singlemode

Fiber Type G.657.A2, TeraSPEED®

Insertion Loss, maximum, connector A 0.45 dB

Return Loss, minimum, connector A 65 dB

Environmental Specifications

Installation temperature $-30 \,^{\circ}\text{C}$ to $+70 \,^{\circ}\text{C}$ (-22 $^{\circ}\text{F}$ to $+158 \,^{\circ}\text{F}$)

Operating Temperature $-40 \,^{\circ}\text{C}$ to $+70 \,^{\circ}\text{C}$ (-40 $^{\circ}\text{F}$ to $+158 \,^{\circ}\text{F}$)

Storage Temperature $-40 \,^{\circ}\text{C}$ to $+75 \,^{\circ}\text{C}$ (-40 $^{\circ}\text{F}$ to $+167 \,^{\circ}\text{F}$)

Environmental Space Outdoor, buried

Jacket UV Resistance UV stabilized

Qualification Standards IEC 61753-1, category A and G | IP68 | Per GR-3152

Packaging and Weights

Packaging quantity 1

Regulatory Compliance/Certifications

Agency Classification

CHINA-ROHS Below maximum concentration value

REACH-SVHC Compliant as per SVHC revision on www.commscope.com/ProductCompliance

ROHS Compliant

UK-ROHS Compliant/Exempted



Included Products

810009324/DB - Self-Supporting All-Dielectric Outdoor Drop Cable, 12 fiber Arid Core construction, central loose tube





Self-Supporting All-Dielectric Outdoor Drop Cable, 12 fiber Arid Core construction, central loose tube

Product Classification

Regional Availability

Asia | Australia/New Zealand | EMEA | Latin America | North

America

 Portfolio
 CommScope®

 Product Type
 Fiber drop cable

Product Series O-DF

General Specifications

Cable Type Central loose tube

Construction Type Non-armored

Subunit Type Gel-filled

Jacket Color Black

Jacket Marking Feet

Subunit, quantity 1

Fibers per Subunit, quantity 12

Total Fiber Count 12

Dimensions

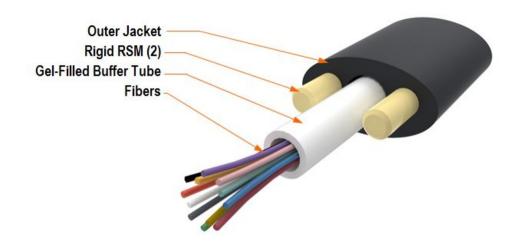
Height Over Jacket 4.5 mm | 0.177 in

Buffer Tube/Subunit Diameter 3 mm | 0.118 in

Diameter Over Jacket 8 mm | 0.315 in

Representative Image





Material Specifications

Jacket Material PE

Mechanical Specifications

Minimum Bend Radius, loaded90 mm3.543 inMinimum Bend Radius, unloaded64 mm2.52 in

Tensile Load, long term, maximum 400 N | 89.924 lbf

 Tensile Load, short term, maximum
 1334 N | 299.895 lbf

 Compression
 10 N/mm | 57.101 lb/in

Compression Test Method FOTP-41 | IEC 60794-1 E3

Flex 35 cycles

Flex Test Method FOTP-104 | IEC 60794-1 E6

 Impact
 2.94 N-m | 26.021 in lb

 Impact Test Method
 FOTP-25 | IEC 60794-1 E4

Strain See long and short term tensile loads

S Comment of the comm

10 cycles

Strain Test Method FOTP-33 | IEC 60794-1 E1

Twist Test Method FOTP-85 | IEC 60794-1 E7

 Vertical Rise, maximum
 1047 m | 3,435.039 ft

Optical Specifications

Twist

COMMSC PE®

Fiber Type G.657.A2 | G.657.A2, TeraSPEED®

Environmental Specifications

Installation temperature $-30 \,^{\circ}\text{C to} + 70 \,^{\circ}\text{C (-22 °F to} + 158 °F)$ Operating Temperature $-40 \,^{\circ}\text{C to} + 70 \,^{\circ}\text{C (-40 °F to} + 158 °F)$ Storage Temperature $-40 \,^{\circ}\text{C to} + 75 \,^{\circ}\text{C (-40 °F to} + 167 °F)$

Cable Qualification Standards ANSI/ICEA S-110-717

Environmental Space Aerial, self-support | Buried

Jacket UV Resistance UV stabilized

Water Penentration 24 h

Water Penentration Test Method FOTP-82 | IEC 60794-1 F5

Environmental Test Specifications

Cable Freeze -2 °C | 28.4 °F

Cable Freeze Test Method FOTP-98 | IEC 60794-1 F15

Drip 70 °C | 158 °F

Drip Test Method FOTP-81 | IEC 60794-1 E14

-40 °C to +85 °C (-40 °F to +185 °F)

Heat Age Test Method IEC 60794-1 F9

Low High Bend $-30 \,^{\circ}\text{C} \text{ to } +60 \,^{\circ}\text{C} \, (-22 \,^{\circ}\text{F to } +140 \,^{\circ}\text{F})$

Low High Bend Test Method FOTP-37 | IEC 60794-1 E11

Temperature Cycle $-40 \,^{\circ}\text{C to} + 70 \,^{\circ}\text{C} \left(-40 \,^{\circ}\text{F to} + 158 \,^{\circ}\text{F}\right)$

Temperature Cycle Test Method FOTP-3 | IEC 60794-1 F1

Packaging and Weights

Cable weight 33 kg/km | 22.175 lb/kft

Regulatory Compliance/Certifications

| Agency | Classification |
|---------------|--|
| CHINA-ROHS | Below maximum concentration value |
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |
| REACH-SVHC | Compliant as per SVHC revision on www.commscope.com/ProductCompliance |
| ROHS | Compliant |
| UK-ROHS | Compliant |

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* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable

