MHD-FFDA



Hardened Multifiber Optical Connector (HMFOC) cable assembly, HMFOC plug to HMFOC plug, 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 Classification

Regional Availability

Asia | Latin America | North America

Product Type Fiber drop cable assembly

Product Series MHD

General Specifications

Cable TypeDielectric - Flat

Connector A, quantity 1

Color, boot ABlackColor, connector ABlackConnector B, quantity1

Color, boot B Black
Color, connector B Black

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

Interface Feature, connector A Female | Unpinned

Interface, Connector B Hardened multi-fiber (HMFOC) plug

Interface Feature, connector B Female | Unpinned

Jacket Color Black

Total Fibers, quantity 12

Dimensions

Cable Assembly Length Range (m) 8 - 915

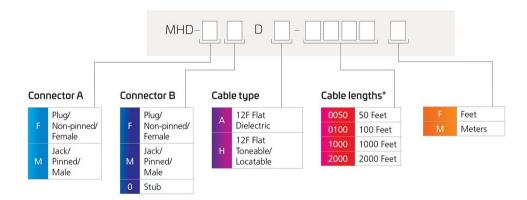
Cable Assembly Length Range (ft) 25 - 3000

Cable Outer Diameter 4.3 x 8.0 mm (0.17 x 0.31 in)

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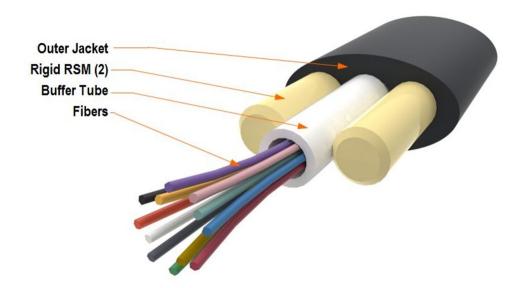
MHD-FFDA

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, loaded86 mm | 3.386 inMinimum Bend Radius, unloaded81 mm | 3.189 inTensile Load, long term, maximum400 N | 89.924 lbfTensile Load, short term, maximum1334 N | 299.895 lbf

Optical Specifications

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MHD-FFDA

Fiber Mode Singlemode

Fiber Type G.657.A2, TeraSPEED®

Insertion Loss, maximum, connector A0.45 dBInsertion Loss, maximum, connector B0.45 dBReturn Loss, minimum, connector A65 dBReturn Loss, minimum, connector B65 dB

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

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

Cable weight 39 kg/km | 26.207 lb/kft

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



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 TypeNon-armoredSubunit TypeGel-filled

Jacket ColorBlackJacket MarkingFeetSubunit, quantity1

Fibers per Subunit, quantity 12

Total Fiber Count 12

Dimensions

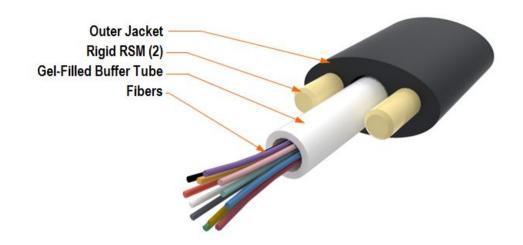
Height Over Jacket 4.5 mm | 0.177 in

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 Test Method 57.101 lb/in FOTP-41 | JEC 60704-1 E3

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

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

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

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

Cable Qualification Standards ANSI/ICEA S-110-717

Environmental Space Aerial, self-support | Buried

Jacket UV Resistance UV stabilized

Water Penetration 24 h

Water Penetration 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

Page 6 of 7





* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable