MHD-FFDH



Hardened Multifiber Optical Connector (HMFOC) cable assembly, HMFOC plug 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 Type Toneable - 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

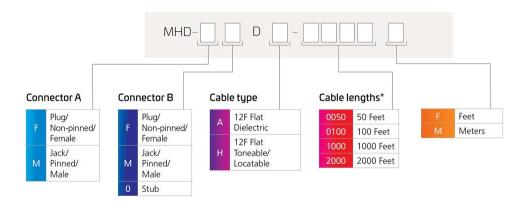
Cable Assembly Length Range (ft) 25 - 3000

Cable Outer Diameter 4.3 x 9.9 mm (0.17 x 0.39 in)

COMMSCOPE®

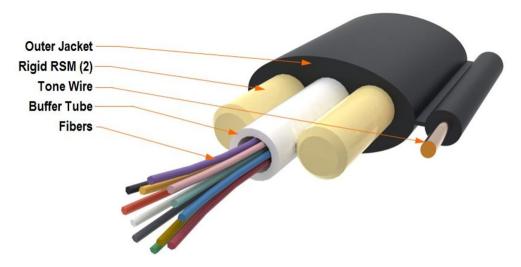
MHD-FFDH

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

Fiber Mode Singlemode

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MHD-FFDH

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 $^{\circ}\text{F}$ 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

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



Included Products

810009374/DB O-012-DF-HY-F12NS/30T /8G1012/1X24AWG Tone Wire Outdoor Drop Cable, 12 fiber Arid Core construction, central loose tube



810009374/DB | 0-012-DF-HY-F12NS/30T /8G1012/1X24AWG



Tone Wire 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 Hybrid cable, fiber and tone-wire

General Specifications

Cable Type Central loose tube

Construction Type Non-armored

Fiber Short Description O-012-DF-HY-F12NS/20G/1X24AWG

Subunit Type Gel-filled

Jacket Color Black

Subunit, quantity

Fibers per Subunit, quantity 12

Tone Wire, quantity 1

Total Fiber Count 12

Dimensions

Height Over Jacket 4.572 mm | 0.18 in

Buffer Tube/Subunit Diameter 3.048 mm | 0.12 in

Diameter Over Jacket 9.906 mm | 0.39 in

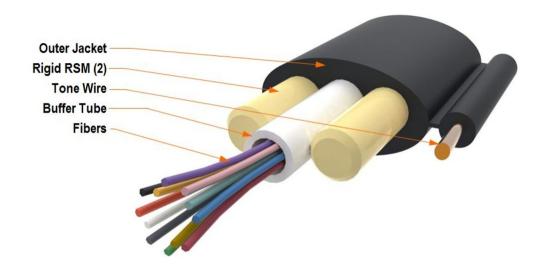
Diameter Over Messenger Jacket 2.032 mm | 0.08 in

Tone Wire Gauge 24 AWG

Representative Image



810009374/DB | 0-012-DF-HY-F12NS/30T /8G1012/1X24AWG



Mechanical Specifications

Minimum Bend Radius, loaded86.36 mm3.4 inMinimum Bend Radius, unloaded63.5 mm2.5 in

Tensile Load, long term, maximum 400.34 N | 90 lbf

Tensile Load, short term, maximum 1,334.466 N | 300 lbf

Compression 1.018 kg/mm | 57 lb/in

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

Flex 35 cycles

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

Impact 2.17 ft lb | 2.942 N-m

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

Strain See long and short term tensile loads

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

Twist 10 cycles

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

Vertical Rise, maximum 889.102 m | 2917 ft

Optical Specifications

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

Environmental Specifications



810009374/DB | 0-012-DF-HY-F12NS/30T /8G1012/1X24AWG

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 StandardsANSI/ICEA S-110-717Environmental SpaceAerial, lashed | 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

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

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

Packaging and Weights

Cable weight 36.906 kg/km | 24.8 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



* Footnotes



810009374/DB | 0-012-DF-HY-F12NS/30T /8G1012/1X24AWG

Operating Temperature Specification applicable to non-terminated bulk fiber cable

