MHD-FODH

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

Regional Availability	Asia | Latin America | North America
Product Type	Fiber drop cable assembly
Product Series	MHD

General Specifications

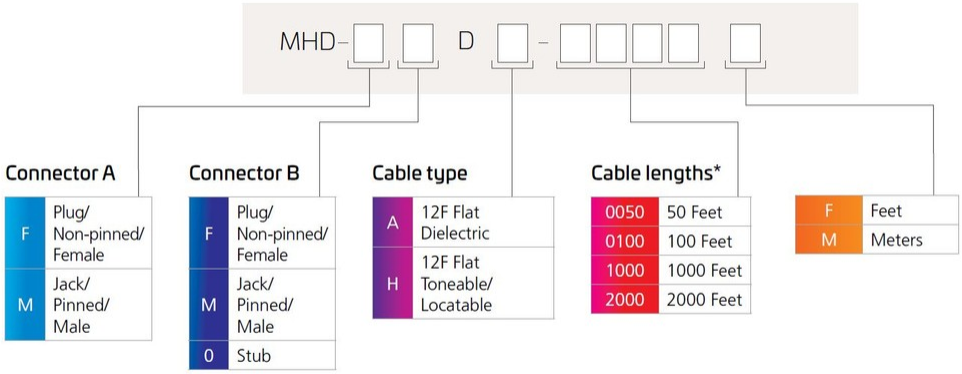
Cable Type	Toneable - Flat
Connector A, quantity	1
Color, boot A	Black
Color, connector A	Black
Interface, Connector A	Hardened multi-fiber (HMFOC) plug
Interface Feature, connector A	Female | Unpinned
Interface, Connector B	Unterminated
Jacket Color	Black
Total Fibers, quantity	12

Dimensions

Cable Assembly Length Range (m)	1 – 750
Cable Assembly Length Range (ft)	50 – 2000
Cable Outer Diameter	4.3 x 9.9 mm (0.17 x 0.39 in)

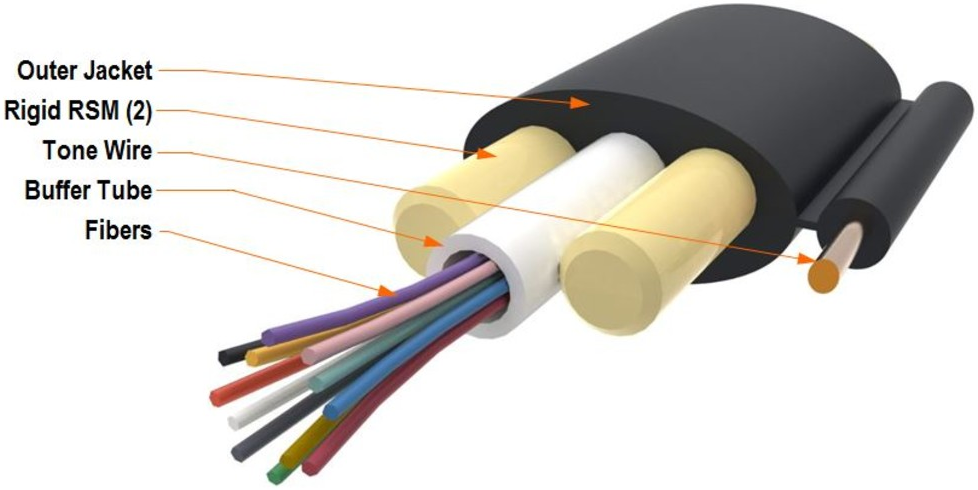
Ordering Tree

MHD-FODH



* 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 mm | 3.386 in
Minimum Bend Radius, unloaded	81 mm | 3.189 in
Tensile Load, long term, maximum	400 N | 89.924 lbf
Tensile Load, short term, maximum	1334 N | 299.895 lbf

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 °C to +70 °C (-22 °F to +158 °F)
Operating Temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Storage Temperature	-40 °C to +75 °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

Packaging quantity	1

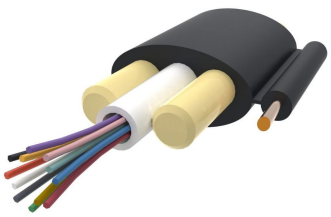
Regulatory Compliance/Certifications

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

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 | O-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

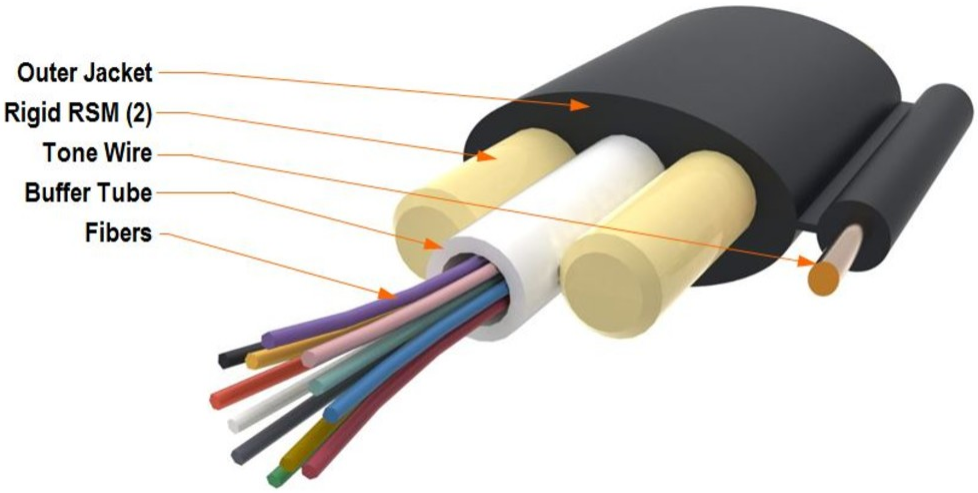
Cable Type	Central loose tube
Construction Type	Non-armored
Fiber Short Description	O-012-DF-HY-F12NS/20G/1X24AWG
Subunit Type	Gel-filled
Jacket Color	Black
Subunit, quantity	1
Fibers per Subunit, quantity	12
Tone Wire, quantity	1
Total Fiber Count	12

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 | O-012-DF-HY-F12NS/30T /8G1012/1X24AWG



Mechanical Specifications

Minimum Bend Radius, loaded	86.36 mm | 3.4 in
Minimum Bend Radius, unloaded	63.5 mm | 2.5 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

Installation temperature	-30 °C to +70 °C (-22 °F to +158 °F)
Operating Temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Storage Temperature	-40 °C to +75 °C (-40 °F to +167 °F)
Cable Qualification Standards	ANSI/ICEA S-110-717
Environmental Space	Aerial, 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 °C to +60 °C (-22 °F to +140 °F)
Low High Bend Test Method	FOTP-37 | IEC 60794-1 E11
Temperature Cycle	-40 °C to +70 °C (-40 °F to +158 °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

Operating Temperature	Specification applicable to non-terminated bulk fiber cable