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 Classification

Regional Availability	Asia | Australia/New Zealand | EMEA | Europe | Latin America | North America
Portfolio	CommScope®
Product Type	Fiber drop cable assembly
Product Series	MHD

General Specifications

Cable Type	Dielectric - Flat
Connector A, quantity	1
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
Cable Outer Diameter	4.3 x 8.0 mm (0.17 x 0.31 in)

Ordering Tree

MHD-MODA

MHD- ☐ ☐ D ☐ - ☐☐☐☐ ☐

Connector A

F	Plug/ Non-pinned/ Female
M	Jack/ Pinned/ Male

Connector B

F	Plug/ Non-pinned/ Female
M	Jack/ Pinned/ Male
0	Stub

Cable type

A	12F Flat Dielectric
H	12F Flat Toneable/ Locatable

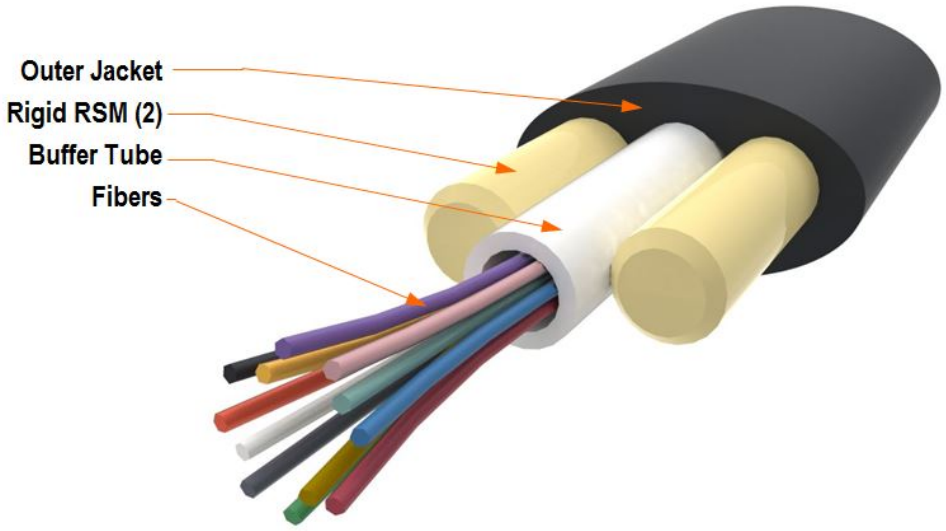
Cable lengths*

0050	50 Feet
0100	100 Feet
1000	1000 Feet
2000	2000 Feet

F	Feet
M	Meters

* 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

MHD-MODA

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

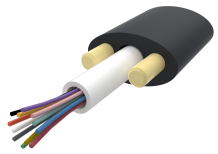
Regulatory Compliance/Certifications

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

810009324/DB O-012-DF-8G1-F12NS/30T	–	Self-Supporting All-Dielectric Outdoor Drop Cable, 12 fiber Arid Core construction, central loose tube

810009324/DB | O-012-DF-8G1-F12NS/30T



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

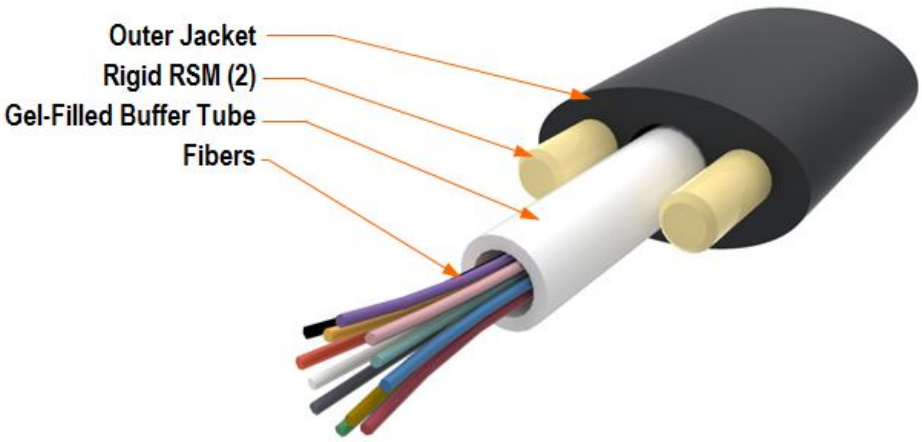
Cable Type	Central loose tube
Construction Type	Non-armored
Subunit Type	Gel-filled
Jacket Color	Black
Jacket Marking	Feet
Subunit, quantity	1
Fibers per Subunit, quantity	12
Total Fiber Count	12

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

810009324/DB | 0-012-DF-8G1-F12NS/30T



Material Specifications

Jacket Material	PE

Mechanical Specifications

Minimum Bend Radius, loaded	90 mm | 3.543 in
Minimum Bend Radius, unloaded	64 mm | 2.52 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
Strain Test Method	FOTP-33 | IEC 60794-1 E1
Twist	10 cycles
Twist Test Method	FOTP-85 | IEC 60794-1 E7
Vertical Rise, maximum	1047 m | 3,435.039 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, 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
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	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

* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable