



Harsh Environment Products

FTTA, DAS, & Cell Tower

Welcome.

For over 25 years NetSource has provided quality custom cable assemblies and components to the telecom, data and security industries.

Today the emerging DAS and FTTx markets are creating new opportunities for us to offer the same services and responsiveness that we have become known for. Our 60,000 square foot facility is ideally suited to accommodate the various products needed by these industries.



Proudly Assembled in the USA



CAH Connections[®]
Gold Program



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THE NETSOURCE ADVANTAGE

Cable Assemblies for Harsh Environments

Sourcing the Proper Components

All raw materials used are sourced directly from industry leading manufacturers. Products are selected to insure excellent protection and resistance to corrosion, vibration, and temperature fluctuation.

Optimum Performance

Our strict internal processes combined with the best industry cable and connectors results in a superior finished product. All assemblies are tested at the factory and shipped with test results.

Cost Savings

Pre-terminated assemblies allow for ease of installation and rapid deployment. Pre-terminated assemblies also reduce costs associated with tooling, technician training, on-site scrap, and clean up.

Customization

Pre-terminated assemblies are made to specific customer requirements. Cable assemblies can be supplied with virtually any fiber type, strand count, and connector type. Customized labeling, breakouts, and packaging are also available.



OPTICAL PERFORMANCE CHART

		INSERTION LOSS (dB)		RETURN LOSS (dB)
FIBER TYPE	FIBER INTERFACE	TYP	MAX	
MULTIMODE	LC / SC	0.20	0.25	~.25dB
	MPO®	0.25	0.35	~.30dB
	ODC STYLE®	NA	NA	
		INSERTION LOSS (dB)		RETURN LOSS (dB)
FIBER TYPE	FIBER INTERFACE	TYP	MAX	
SINGLE MODE	LC / SC - UPC	0.20	0.25	~.57dB
	SC / LC - APC			~.65dB
	MPO®	0.60	0.50	~.60dB
	ODC® STYLE	0.30	0.60	~.50dB
	OptiTip®	0.35	0.65	
	OptiTap®	0.20	0.25	

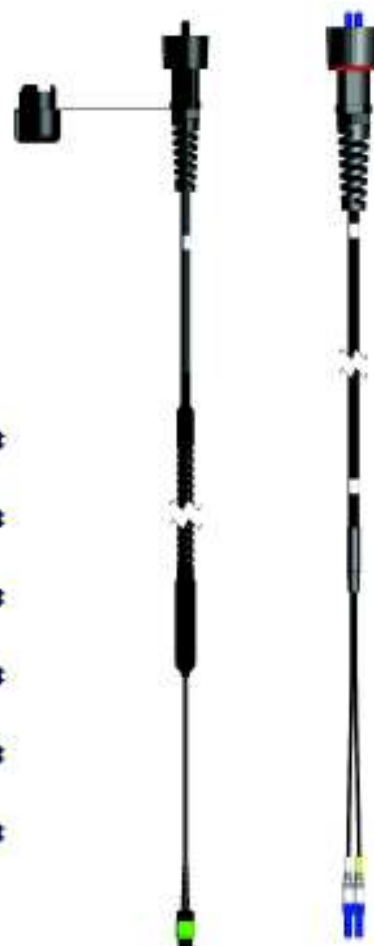
IP68 LC/SC/MPO

FEATURES

- Fiber interface: Simplex SC, Duplex LC, and 12/24F MPO
- Multimode and singlemode
- Waterproof, dustproof, and corrosion resistant
- Low cost and easy to use
- One hand bayonet mating designed in accordance with IEC60603-7
- Color coded Safe Lock to prevent unintended disconnect
- Waterproof dust caps available
- Easy extension with in-line adapter
- Cable types: Armored, I/O, TIN1, and Tactical

PERFORMANCE SPECIFICATIONS

HOUSING MATERIAL	UV / CHEMICAL / OZONE / RESISTANCE
MATING DURABILITY	100 mating cycles
MECHANICAL PERFORMANCE : PULL FORCE (LBS)	25 KG
IP RATING	IP68
OPERATING TEMPERATURE IEC 61200-2-22	-40 °C / +70 °C
ODVA COMPATABLE	YES
FLAMABILITY RATING	UL94V-0
SALT MIST : IEC 61300-2-26	PASSED
VIBRATION : IEC 61300-2-1	PASSED
SHOCK : IEC 61300-2-9	PASSED



IP68 LC/SC/MPO with Copper

The unique design of our weather resistant connectors allows for various configurations to help accommodate your specific needs and size requirements

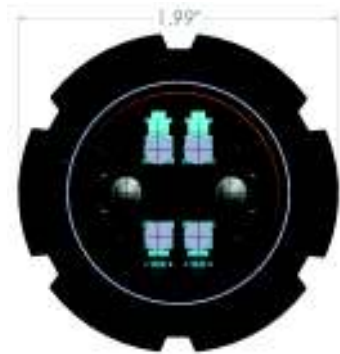
FEATURES

- Fiber interface: Simplex SC, Duplex LC, and 12/24F MPO
- Multimode and singlemode
- Waterproof, dustproof, and corrosion resistant
- Low cost and easy to use
- One hand bayonet mating designed in accordance with IEC60603-7
- Color coded Safe Lock to prevent unintended disconnect
- Waterproof dust caps available
- Easy extension with in-line adapter
- Cable types: Armored, I/O, TINI, and Tactical
- 6/8/10AWG



PERFORMANCE SPECIFICATIONS

HOUSING MATERIAL	UV / CHEMICAL / OZONE / REISISTANCE
MATING DURABILITY	100
MECHANICAL PERFORMANCE : PULL FORCE (LBS)	25 KG
IP RATING	IP68
OPERATING TEMPERATURE IEC 61200-2-22	-40 °C / +70 °C
ODVA COMPATABLE	YES
FLAMABILITY RATING	UL94V-0
SALT MIST : IEC 61300-2-26	PASSED
VIBRATION : IEC 61300-2-1	PASSED
SHOCK : IEC 61300-2-9	PASSED



IP-25
4X LC CONNECTORS
2X COPPER



IP-21
2X LC CONNECTORS
2X COPPER



ISPN
4 OR 6 FIBER
1.25 LC FERRULE



IP-5
1 FIBER SC
12 FIBER MPO

FEATURES

- 2 Fiber Duplex LC interface
- Multimode and Singlemode
- Waterproof, dustproof, and corrosion resistant
- One hand mating - bayonet style
- Bulkhead cutout allows for removal of transceiver through the bulkhead (no need to open remote radio head for transceiver replacement)
- Cable Types: Armored, I/O, TINI, Tactical

PERFORMANCE SPECIFICATIONS

Number of fibers	2
HOUSING MATERIAL	UL 94-V0
MATING DURABILITY	100
MECHANICAL PERFORMANCE: Pull Force (lbs)	150N
IP RATING	IP67
OPERATING TEMPERATURE: IEC 61300-2-22	-40°C / +85°C
Salt Mist: IEC 61300-2-26	Passed
Vibration: IEC 61300-2-1	Passed
Shock: IEC 61300-2-9	Passed



ODC® Style

FEATURES

- 2-4 Fiber plug and socket
- Multimode and Singlemode
- Waterproof, dustproof, and corrosion resistant
- One hand threaded mating
- 1.25mm ceramic ferrule
- Waterproof dust caps available

PERFORMANCE SPECIFICATIONS

Number of fibers	2-4 Fibers
HOUSING MATERIAL	Nickel plated brass
MATING DURABILITY	500
MECHANICAL PERFORMANCE: pull force (lbs)	
IP RATING	IP68
OPERATING TEMPERATURE: IEC 61300-2-22	-40°C / +70°C
Salt Mist: IEC 61300-2-26	passed
Vibration: IEC 61300-2-1	passed
Shock: IEC 61300-2-9	passed



OptiTip® CORNING COMPATIBLE

Cable assemblies available OptiTip® to OptiTip® and OptiTip® to LC/SC/ST and MTP®

PERFORMANCE SPECIFICATIONS

Number of fibers	12 Fiber	
HOUSING MATERIAL		
MATING DURABILITY	200 rematings <.3dB change	
MECHANICAL PERFORMANCE: pull force (lbs)	100	
Tensile Strength	300lb 1350N	
OPERATING TEMPERATURE: IEC 61300-2-22	-40°C / +70°C	
Qualifications	IP68, IP69K, EIA/TIA568-B, GR315	

FEATURES

- Singlemode and Multimode
- Pined and non-pinned
- Sealed dust cap with integrated pulling eye
- Waterproof, dustproof, and corrosion resistant
- Available with Corning SST™ and Freedm® LSZH™ Indoor/Outdoor cable



OptiTap® CORNING COMPATIBLE

PERFORMANCE SPECIFICATIONS

Number of fibers	1 Fiber	
HOUSING MATERIAL		
MATING DURABILITY		
MECHANICAL PERFORMANCE: pull force (lbs)	100	
IP RATING	GR-3120	
OPERATING TEMPERATURE: IEC 61300-2-22	-40°C / +70°C	
Designed and Tested to Telcordia GR-3120		

FEATURES

- 1 fiber SC
- Singlemode APC/UPC polish
- Proven reliability (deployed for over 20 years)
- Water proof, dust proof, and corrosion resistant
- Available on Corning SST™ Drop Dielectric and Toneable



CUSTOM PRE-TERMINATED MULTI FIBER ASSEMBLIES

NetSource preterminated assemblies allow for quick and easy deployment. They are suitable for a wide variety of installations. All assemblies are made to customer specific requirements and can be used in both temporary and permanent installs. Factory termination in a controlled environment helps insure reliable and consistent performance.

PRODUCT TYPES

- 2-144 Fibers
- Singlemode and Multimode

BREAKOUTS

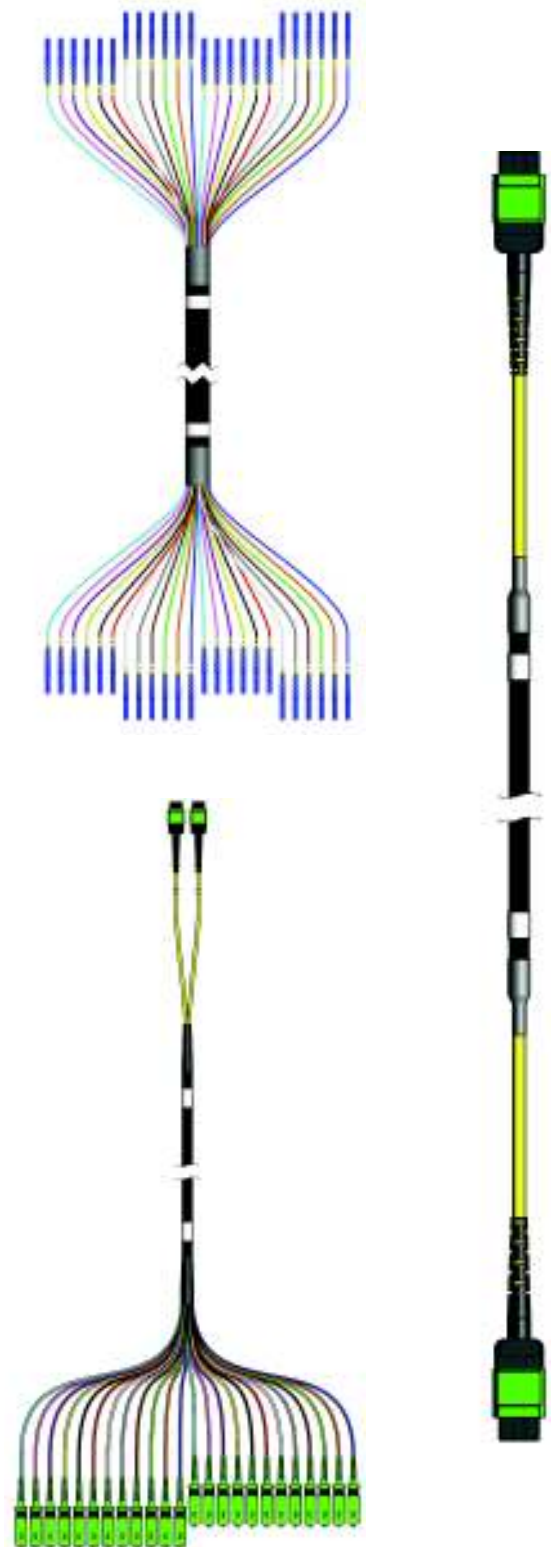
- Custom lengths
- Weather resistant
- Variety of colors and sizes

FIBER INTERFACE

- LC, SC, ST, MTP®, FullAXS®, ODC®, OptiTip®, OptiTap® IP RATED CONNECTORS

CABLE CONSTRUCTION

- Riser / plenum / PU / PE jackets
- Armored: Interlocking / TINI® / Metal Sheath
- Indoor / Outdoor: Sunlight resistant cable jackets



DAS Cable Assemblies

NetSource distributed antenna system cables are manufactured to your specific requirements. These cable assemblies are the perfect solution for both in-building and outdoor wireless coverage.

PRODUCT TYPES

- 1-24 Fibers
- Singlemode and Multimode
- 12/14/16/18/20AWG THHN / THWN-2

BREAKOUTS

- Manufactured to specific lengths
- Weather resistant
- Variety of colors and sizes

FIBER INTERFACE

- LC, SC, ST, MTP®

CABLE CONSTRUCTION

- Riser / Plenum / PU jackets : Sunlight resistant cable
- Armored: Interlocking / TINI® / Metal Sheath

