

Fermilab CD/DCI Tech Note

Cable, Fiber-TN-001.31

The following specifications apply to all assembled ST, SC, MIC, MTRJ, VF45, LC, SMA, BICONIC, Opti-Jack etc. fiber optic "jumper" (patch/drop) simplex (SX) and duplex (DX) cables purchased by Fermilab Computing Division/Data Communications Group (DCG), Data Communications Installations (DCI), or any other Fermilab groups ordering cables using this tech note's part numbers. Users should always purchase cords from recommended vendors only to ensure compliance with tech notes. Call Fermi CD/Data Comm. for a list of qualified vendors or visit our web page at <http://computing.fnal.gov/dci/Document-pdf-Files/Cable-Assy-Houses.pdf>.

Use the Fermi part number(s) on Purchase Requests when ordering cables, unless directed otherwise. *Red sidebar indicates most recent change to this Tech Note. Orange sidebar indicates previous change.*



1. CABLES

1.A. Zipcord

- 1.A.A. 3mm standard 62.5/125 micron multimode (MM) riser rated (OFNR): **orange** Belden Bitlite #225182-03, Corning 002K51-31141-24 or AFL ZR-002-6-30-1-0-0-1.
- 1.A.B. 3mm standard 62.5/125 micron multimode plenum rated (OFNP): **orange** Belden Bitlite #225812, Corning 002K58-31141-24, Berk-Tek ICPOXO.CB3510/15 or AFL ZP-002-6-30-1-0-0-1.
- 1.A.C. 3mm standard 8.3/125 single-mode (SM) OFNR: **yellow** Belden Bitlite #221162, **orange** Corning #002R51-31131-24 or AFL ZR-002-9-30-1-0-0-1.
- 1.A.D. 3mm standard 8.3/125 SM OFNP: **yellow** Belden Bitlite #221812, Corning #002R58-31131-24, Berk-Tek ICPOXO-AB0707 or AFL ZP-002-9-30-1-0-0-1.
- 1.A.E. 3mm standard 50/125 micron multimode riser rated: **orange**: AFL ZR-002-5-30-1-0-0-1 or Corning 002C51-31131-24.
- 1.A.F. 3mm standard 50/125 micron multimode plenum rated, **orange**: AFL ZP-002-5-30-1-0-0-1 or Corning 002C58-31131-24.
- 1.A.G. 3mm laser-optimized 62.5/125 micron MM OFNR: **rose**: AFL ZR-002-8-30-1-0-B-1 or Corning ??
- 1.A.H. 3mm laser-optimized 62.5/125 micron MM OFNP: **rose**: AFL ZP-002-8-30-1-0-B-1 Corning ??
- 1.A.I. 3mm laser-optimized 50/125 micron multimode riser rated **aqua**: AFL ZR-002-L-30-1-0-C-1 or Corning 002S51-31180-24.
- 1.A.J. 3mm laser-optimized 50/125 micron multimode plenum rated **aqua**: AFL ZP-002-L-30-1-0-C-1 or Corning 002S58-31180-24.



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- 1.A.K. 2mm 50/125 micron multimode riser rated:
orange: AFL ZR-002-5-20-1-0-0-1 or
Corning 002C51-31331-24.
 - 1.A.L. 2mm 50/125 micron multimode plenum rated,
orange: AFL ZP-002-5-20-1-0-0-1 or
Corning 002C58-31331-24.
 - 1.A.M. 2mm 62.5/125 micron multimode riser rated:
orange: AFL ZR-002-6-20-1-0-0-1 or
Corning 002K51-31341-29.
 - 1.A.N. 2mm 62.5/125 micron multimode plenum rated,
orange: AFL ZP-002-6-20-1-0-0-1 or
Corning 002K58-31341-29.
 - 1.A.O. 1.6mm 50/125 micron multimode riser rated:
orange: AFL ZR-002-5-16-1-0-0-1 or
Corning 002C51-31431-24.
 - 1.A.P. 1.6mm 50/125 micron multimode plenum rated,
orange: AFL ZP-002-5-16-1-0-0-1 or
Corning 002C58-31431-24.
 - 1.A.Q. 3mm standard 62.5/125 micron multimode (MM) riser rated
(OFNR): **orange** Optical Cable Corporation
AX02-030D-WLS/900-OFNR.
 - 1.A.R. 3mm standard 62.5/125 micron multimode plenum rated
(OFNP): **orange** Optical Cable Corporation
AX02-030S-WLS/900-OFNP.
 - 1.A.S. 3mm standard 8.3/125 single-mode (SM) OFNR: **yellow**
Optical Cable Corporation AX02-030D-SLS/900-OFNR.
 - 1.A.T. 3mm standard 8.3/125 SM OFNP: **yellow** Optical Cable
Corporation AX02-030S-SLS/900-OFNR.
- 1.B. Distribution/Ribbon
- 1.B.A. 2.9mm standard 62.5/125 multimode riser rated
orange: Alcoa-Fujikura DR0026281001 or
Corning #002KJ1-21140-0F cable.
 - 1.B.B. 2.9mm standard 62.5/125 multimode plenum rated
orange: Alcoa-Fujikura # ??? or Corning
#002KJ8-21140-0F cable.
 - 1.B.C. 4.7mm laser-optimized 62.5/125 micron MM OFNR **rose**:
AFL DR0028281001 (2.8mm) or Corning 002K81-31150-29.
 - 1.B.D. 4.6mm laser-optimized 62.5/125 micron MM OFNP **rose**:
AFL # ??? or Corning 002K88-31150-29.

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- 1.B.E. 2.8mm laser-optimized 50/125 micron multimode riser rated **aqua**: AFL DR0028281001 or Corning ???.
- 1.B.F. 2.8mm laser-optimized 50/125 micron multimode plenum rated **aqua**: ??? Corning ???.
- 1.B.G. 2.9mm standard 8.3/125 single-mode riser rated (2.9mm) **yellow**: Alcoa-Fujikura DR0026291001 or Corning #002RJ1-21131-0F cable.
- 1.B.H. 2.9mm standard 8.3/125 single-mode plenum rated (2.9mm) **yellow**: Alcoa-Fujikura # ??? or Corning #002RJ8-21131-0F cable.

1.C. Simplex

- 1.C.A. 3mm standard 62.5/125 micron multimode riser rated: **orange** Corning #001K31-31141-24 cable.
- 1.C.B. 3mm standard 62.5/125 micron multimode plenum rated: **orange** Corning #001K38-31141-29 cable.
- 1.C.C. 3mm standard 8.3/125 single-mode riser rated: **yellow** Corning #001R31-31131-24 cable.
- 1.C.D. 3mm standard 8.3/125 single-mode plenum rated: **yellow** Corning #001R38-31131-29 cable.
- 1.C.E. 900-micron riser-rated 62.5-micron core multimode (MM) assemblies must use Corning 001K41-(color)-24.
- 1.C.F. 900-micron riser-rated single mode (SM) assemblies must use Corning 001R41-(color)-24.
- 1.C.G. 900-micron riser-rated 50-micron core multimode (MM) assemblies must use Corning 001C41-(color)-24.

2. CONNECTORS

2.A. Conventional

- 2.A.A. All multimode ST connectors shall be 3M # 6100, AMP 503677-3 or Corning 95-101-44.
- 2.A.B. Multimode 62.5 micron SC connectors shall be 3M #6300, AMP #502883-1, Corning # 95-100-48/95-100-16, Lucent P6201A-Z-125 or AFL C174535.
- 2.A.C. All single mode ST connectors shall be 3M # 8106 or Corning **95-250-06-SP**.
- 2.A.D. Single mode SC connectors shall be 3M# 8306 or Corning # **95-250-08-SP**.
- 2.A.E. All MIC (FDDI) connectors shall be AMP #502015-1.

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- 2.A.F. All single mode ST angled-physical-contact (APC) connectors shall be Molex #xxxxxx.
- 2.A.G. Single mode SC angled PC (APC) connectors shall be Molex #86065-5000 or Corning 95-211-08.
- 2.A.H. Multimode 50/125 micron SC connectors shall be Corning # 95-050-48-BP.
- 2.A.I. When requested, multimode ST connectors can be AFOP # 720-3050-0110B.
- 2.A.J. When requested, singlemode ST connectors can be AFOP # 720-2050-020B.



2.B. Small Form Factor

- 2.B.A. All multimode MTRJ ferrules shall be US Conec MTF-2MM7NB-01 or Corning 91-100-97-BP.
- 2.B.B. Multimode female MTRJ(F) connectors (the side without the alignment pins) shall be Molex 86003-3030, Corning 91-100-97-BP or AFL C191790.
- 2.B.C. Multimode male MTRJ(M) connectors (the side with the alignment pins) shall be Molex 86003-3030, Corning 91-100-97-BP (with Corning 91-100-PIN-BP) or AFL C191782.
- 2.B.D. Single mode female MTRJ(F) connectors (the side without the alignment pins) shall be Molex ##### or Corning 91-200-97-BP.
- 2.B.E. Single mode male MTRJ(M) connectors (the side with the alignment pins) shall be Molex ##### or Corning 91-200-97-BP (with Corning 91-200-PIN-BP).
- 2.B.F. LC 62.5 micron core multimode connectors for 1.6mm/2mm O.D. cable shall be Avaya P1000A-Z-125 or Corning 95-100-LC-Bpxy.
- 2.B.G. LC 50 micron core multimode connectors for 1.6mm/2mm O.D. cable shall be Avaya P1000-Z-125 or Corning 95-050-LC-BPxy.
- 2.B.H. LC 8.3 micron core single mode untuned connectors for 1.6mm/2mm O.D. cable shall be Avaya P1101?-Z-125 or Corning 95-250-LC-BPxy.
- 2.B.I. LC 8.3 micron core single mode tuned connectors for 1.6mm/2mm O.D. cable shall be Avaya P1101A-Z-125 or Corning 95-252-LC-Bpxy.
- 2.B.J. LC 50/62.5 micron core multimode connectors for 3.0 mm O.D. cable shall be AFOP 721-3230-7880B (DX).
- 2.B.K. LC 50/62.5 micron core multimode connectors for 3.0 mm O.D. cable shall be AFOP 721-3130-7880B (SX).

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2.B.L. LC 8.3 micron core single mode connectors for 3.0 mm O.D. cable shall be AFOP 721-2230-5880B (DX).

2.B.M. LC 8.3 micron core single mode connectors for 3.0 mm O.D. cable shall be AFOP 721-2130-5880B (SX).

3. DESIGN

3.A. ST/SC/LC

3.A.A. **Boot Color:** Flat/Domed Polish

For **multimode** duplex XX-XX assemblies (where XX is ST, SC, LC or other single-strand connector) the fiber with the manufacturer's name on the jacket shall have a red strain relief boot. The other fiber shall have a black boot.

For **singlemode** duplex XX-XX assemblies (where XX is ST, SC, LC or other single-strand connector) the fiber with the manufacturer's name on the jacket shall have a **yellow** strain relief boot. The other fiber shall have a **white** boot.

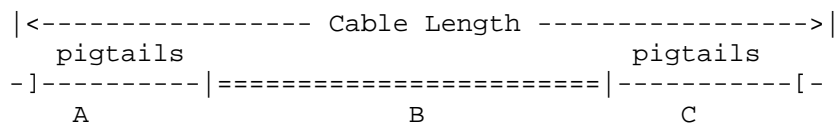
3.A.B. **Boot Color:** Angled Polish

All angle polished connectors shall have green boots.

All duplex XX-XX assemblies (where XX is ST, SC, LC or other single-strand connector) the fiber with the manufacturer's name on the jacket shall have a green strain relief boot with red shrink tubing at its base. The other fiber leg shall have a green boot.

3.A.C. Furcating

All XX-XX assemblies made with distribution cable (or requiring transition from a larger to a smaller O.D., i.e. SC-LC) shall be broken-out with pigtailed (known as Part-A) 6 inches long*, +/- one half inch. Assemblies with pigtail lengths other than the standard 6 inches will be ordered in tip-to-tip (Part-A to Part-C) lengths. The drawing below shows tip-to-tip Parts for an XX-XX cable:



3.A.C.2 Corning multimode DIB cable shall use furcating kit FUR-02-MM or equivalent.

3.A.C.3 Corning single mode DIB cable shall use furcating kit FUR-02-SM or equivalent.

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3.B. MIC (FDDI)

3.B.A. As you face a MIC (FDDI) connector, key up, on all zip cord MIC-XX assemblies (where XX is ST, SC, etc) the right-side ferrule will be the fiber with the manufacturers name on the jacket and the XX connector boot on that leg shall be red. If arrows are used to show direction of signal flow, the fiber with the red boot shall have the arrow pointing toward the XX connector.

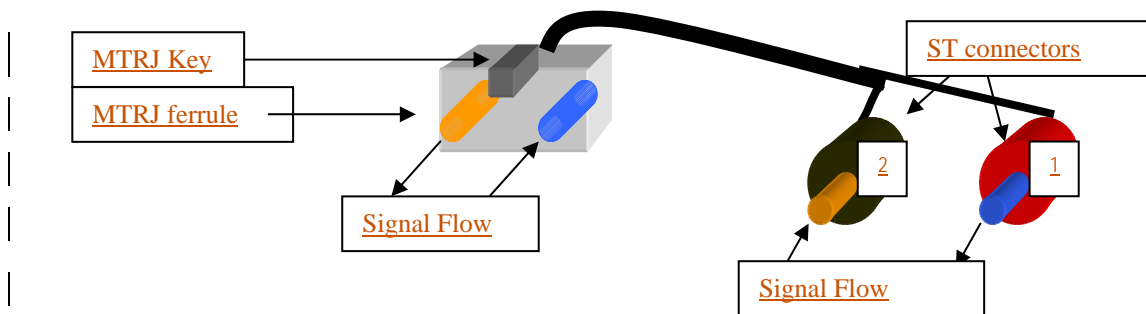
3.B.B. All MIC-MIC assemblies shall be null (the fiber on the right-side of one MIC shall be the fiber on the left-side of the other MIC, as you face the MICs, keys up), according to FDDI requirements.

3.C. MTRJ

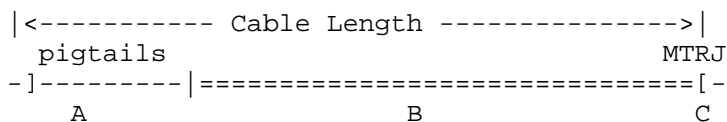
3.C.A. MTRJ-XX

3.C.A.1. As you face an MTRJ connector, key up, on all MTRJ-XX assemblies (where XX is ST, SC, etc), the right-side fiber will be the equipment transmit and the XX connector boot on that leg shall be red. If arrows are used to show direction of signal flow, the fiber with the red boot shall have the arrow pointing toward the XX connector.

** Unless otherwise stated on Purchase/ProCard Order.*



3.C.A.2. Assemblies made with distribution cable shall have pigtails (known as Part-A) 6 inches long*, +/- one half inch. The assemblies will be ordered in tip-to-tip (Part-A to Part-C) lengths. The drawing below shows tip-to-tip Parts for an MTRJ-XX cable:



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** Unless otherwise stated on Purchase/ProCard Order.*

3.C.B. MTRJ-MTRJ

3.C.B.1. A straight-through (strait-thru) MTRJ-MTRJ cable shall be such that the fiber on the right-side of one end is the fiber on the right-side of the other end, as you face the MTRJs with keys up. The strain relief boots at both ends of a strait-thru MTRJ-MTRJ cable shall be black.

3.C.B.2. A cross-over (null) MTRJ-MTRJ cable shall be such that the fiber on the right-side of one end is the fiber on the left-side of the other end, as you face the MTRJs with keys up. The strain relief boots at both ends of a null MTRJ-MTRJ cable shall be red.

3.D. Simplex DIB

3.D.A. (Deleted.)

3.E. 50 micron core

3.E.A. 2mm assemblies shall have Corning 95-400-11-BP2A aqua boots. The "letter leg" shall have red shrink tubing or the cable flag-style label.

3.E.B. Assemblies shall have clips arranged such that the "letter" leg shall be position "A" on one end and "B" on the other. i.e. null, such that TX on one end will be RX on the other.

3.E.C. 900 micron assemblies shall have Corning 95-400-11-BP9A aqua boots.

4. Performance

4.A. Reflectance

4.A.A. Super-PC (SPC) polished connectors reflectance must be $<-45\text{dB}$.

4.A.B. Ultra-PC (UPC) polished connector reflectance must be $<-55\text{dB}$.

4.A.C. MT-RJ reflectance must be $<-35\text{dB}$.

4.A.D. APC reflectance must be $<-65\text{dB}$.

4.B. Insertion Loss

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- 4.B.A. Assembled multimode cables shall have no more than 0.5 dB loss per leg, end-to-end (@ 850nm and 1300nm) using EIA 526-14 Method-A test procedure.
- 4.B.B. Assembled single mode cables shall have no more than 0.3 dB loss per leg, end-to-end (@ 1310nm and 1550nm) using EIA 526-14 Method-A test procedure.

5. MECHANICAL

5.A. Ferrules

- 5.A.A. All multimode connectors shall have a ceramic tip ferrule with a super-PC (SPC) polish.
- 5.A.B. All single mode connectors shall have ceramic tip ferrules with an ultra-PC (UPC) polish.

5.B. Strain Relief

- 5.B.A. All connectors must have proper strain relief such that tugging forces are exerted only on the cable strength members and/or jacket, not directly on the fibers in the ferrule assembly.
- 5.B.B. Strain-relief boots shall be glued to the cable jacket such that they do not rotate freely or slide away from the connector.
- 5.B.C. Only Dual Wall Adhesive Lined Thin Wall Heat Shrink such as Panduit HSTTA25-48-Q can be used for furcating assemblies that are employed as "equivalent" to Corning furcating kits.

5.C. Protective Boots

- 5.C.A All connectors shall have protective dust cover boots.

6. LABELING

6.A. Cable Label Location

- 6.A.A. Cables must be labeled flag-style no less than 3 inches and no greater than six inches from their tips, **only on the "letter leg" (manufacturers info is printed on this leg) of both ends.**
- 6.A.B. For an unconnectorized (UN) end, the label must be no greater than six inches from the end of the jacket.

6.B. Label Information

- 6.B.A. All cable labels must contain the following information: the vendor name, the vendor part number and a unique



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serial number, end-end type (i.e. ST-SC), jacket type (OFNR or OFNP), the appropriate Fermi part number and the length in feet (F) or meters (M) for that cable.

6.B.B. Serial numbers must be in one of the following formats:

Purchase Orders

The serial number shall be derived from the Purchase Order number and be in the following format: XXX-YYYYYY, where XXX is a number that begins from 001 and increments by 1 up to the total number of cables being made by that vendor for that Purchase Order (regardless of whether the Purchase Order includes other assembled cables which are not fiber) and YYYYYY is the Purchase Order number.

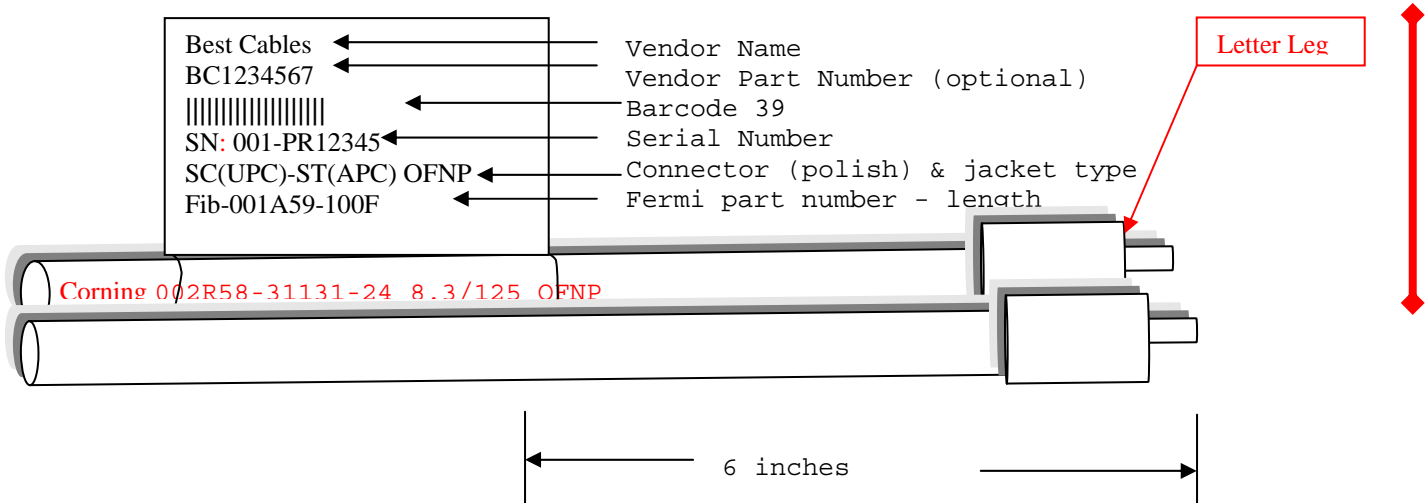
Computing Division ProCard Orders

The serial number shall be derived from the ProCard number and be in the following format: SN: XXX-PRNZZZZZ, where XXX is a number that begins from 001 and increments by 1 up to the total number of cables being made by that vendor for that ProCard Order (regardless of whether the ProCard Order includes other assembled cables which are not fiber cords); ZZZZZ is the PRN number of the ProCard order.

Non-Computing Division ProCard Orders

The serial number shall be derived from the ProCard number and be in the following format: XXX-ZZZZ-MMDDYY, where XXX is a number that begins from 001 and increments by 1 up to the total number of cables being made by that vendor for that ProCard Order (regardless of whether the ProCard Order includes other assembled cables which are not fiber); ZZZZ are the last four digits of the ProCard number and MMDDYY is the month, day and year of the ProCard order.

6.B.C The following is an example of the label format:



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6.C. Label Quality

- 6.C.A. The labels must be laminated such that the information on them does not smear, fade or become unreadable under normal handling and installation conditions.
- 6.C.B. The labels must be Kroy 2556701, Panduit LS5-10 or equivalent.
- 6.C.C. The font size **must** be 8-point or greater. Tiny, blotchy, smeared or otherwise unreadable characters will not be accepted.

The following is a list of Fermilab part numbers for assembled fiber cables:

FERMI PART NUMBERS

<u>Fermi #</u>	<u>Description</u>
Fib-001A00	Cable, Fiber, DX, ST (SPC) - ST (SPC), 62.5/125, MM, OFNR (Cable: 1.A.A. Connectors: 2.A.A.)
Fib-001A01	Cable, Fiber, DX, ST (SPC) - ST (SPC), 62.5/125, MM, OFNP (Cable: 1.A.B. Connectors: 2.A.A.)
Fib-001A02	Cable, Fiber, DX, ST (UPC) - ST (UPC), 8.3/125, SM, OFNR (Cable: 1.A.C. Connectors: 2.A.C.)
Fib-001A03	Cable, Fiber, DX, ST (UPC) - ST (UPC), 8.3/125, SM, OFNP (Cable: 1.A.D. Connectors: 2.A.C.)
Fib-001A04	Cable, Fiber, DX, ST (SPC) - SC (SPC), 62.5/125, MM, OFNR (Cable: 1.A.A. Connectors: 2.A.A. & 2.A.B.)
Fib-001A05	Cable, Fiber, DX, ST (SPC) - SC (SPC), 62.5/125, MM, OFNP (Cable: 1.A.B. Connectors: 2.A.A. & 2.A.B.)
Fib-001A06	Cable, Fiber, DX, ST (UPC) - SC (UPC), 8.3/125, SM, OFNR (Cable: 1.A.C. Connectors: 2.A.C. & 2.A.D.)
Fib-001A07	Cable, Fiber, DX, ST (UPC) - SC (UPC), 8.3/125, SM, OFNP (Cable: 1.A.D. Connectors: 2.A.C. & 2.A.D.)
Fib-001A08	Cable, Fiber, DX, SC (SPC) - SC (SPC), 62.5/125, MM, OFNR (Cable: 1.A.A. Connectors: 2.A.B.)
Fib-001A09	Cable, Fiber, DX, SC (SPC) - SC (SPC), 62.5/125, MM, OFNP (Cable: 1.A.B. Connectors: 2.A.B.)
Fib-001A10	Cable, Fiber, DX, SC (UPC) - SC (UPC), 8.3/125, SM, OFNR (Cable: 1.A.C. Connectors: 2.A.D.)
Fib-001A11	Cable, Fiber, DX, SC (UPC) - SC (UPC), 8.3/125, SM, OFNP (Cable: 1.A.D. Connectors: 2.A.D.)
Fib-001A12	Cable, Fiber, DX, MIC-ST, 62.5/125, MM, OFNR

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Fib-001A13 Cable, Fiber, DX, MIC-ST, 62.5/125, MM, OFNP

Fib-001A14 Cable, Fiber, DX, MIC-MIC, 62.5/125, MM, OFNR

Fib-001A15 Cable, Fiber, DX, MIC-MIC, 62.5/125, MM, OFNP

Fib-001A16 Cable, Fiber, DX, MIC-SC, 62.5/125, MM, OFNR

Fib-001A17 Cable, Fiber, DX, MIC-SC, 62.5/125, MM, OFNP

Fib-001A18 Cable, Fiber, DX, Bonic-ST, 62.5/125, MM, OFNR

Fib-001A19 Cable, Fiber, DX, Bonic-ST, 62.5/125, MM, OFNP

Fib-001A20 Cable, Fiber, DX, SMA-SMA, 62.5/125, MM OFNR

Fib-001A21 Cable, Fiber, DX, SMA-SMA, 62.5/125, MM OFNP

Fib-001A22 Cable, Fiber, DX, ST-SMA, 62.5/125, MM, OFNR

Fib-001A23 Cable, Fiber, DX, ST-SMA, 62.5/125, MM, OFNP

Fib-001A24 Cable, Fiber, DX, ST-ST, 50/125, MM, OFNR

Fib-001A25 Cable, Fiber, DX, ST-ST, 50/125, MM, OFNP

Fib-001A26 Cable, Fiber, DX, ST-SC, 50/125, MM, OFNR

Fib-001A27 Cable, Fiber, DX, ST-SC, 50/125, MM, OFNP

Fib-001A28 Cable, Fiber, DX, SC(SPC) -SC(SPC), 50/125, MM, OFNR
(Cable: 1.A.E. Connectors: 2.A.H.)

Fib-001A29 Cable, Fiber, DX, SC(SPC) -SC(SPC), 50/125, MM, OFNP
(Cable: 1.A.F. Connectors: 2.A.H.)

Fib-001A30 Cable, Fiber, DX, ST(SPC) -MTRJ(F), 62.5/125, MM, OFNR
(Cable: 1.B.A. Connectors: 2.A.A. & 2.B.B.)

Fib-001A31 Cable, Fiber, DX, ST(SPC) -MTRJ(F), 62.5/125, MM, OFNP
(Cable: 1.B.B. Connectors: 2.A.A. & 2.B.B.)

Fib-001A32 Cable, Fiber, DX, ST(UPC) -MTRJ(F), 8.3/125, SM, OFNR

Fib-001A33 Cable, Fiber, DX, ST(UPC) -MTRJ(F), 8.3/125, SM, OFNP

Fib-001A34 Cable, Fiber, DX, SC(SPC) -MTRJ(F), 62.5/125, MM, OFNR
(Cable: 1.B.A. Connectors: 2.A.B. & 2.B.B.)

Fib-001A35 Cable, Fiber, DX, SC(SPC) -MTRJ(F), 62.5/125, MM, OFNP
(Cable: 1.B.B. Connectors: 2.A.B. & 2.B.B.)

Fib-001A36 Cable, Fiber, DX, SC(UPC) -MTRJ(F), 8.3/125, SM, OFNR

Fib-001A37 Cable, Fiber, DX, SC(UPC) -MTRJ(F), 8.3/125, SM, OFNP

Fib-001A38 Cable, Fiber, MTRJ(F) -MTRJ(F), Null, 62.5/125, MM, OFNR
(Cable: 1.B.A. Connectors: 2.B.B.)

Fib-001A39 Cable, Fiber, MTRJ(F) -MTRJ(F), Null, 62.5/125, MM, OFNP

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(Cable: 1.B.B. Connectors: 2.B.B.)

Fib-001A40 Cable, Fiber, MTRJ (F) -MTRJ (F) , Null, 8.3/125, SM, OFNR

Fib-001A41 Cable, Fiber, MTRJ (F) -MTRJ (F) , Null, 8.3/125, SM, OFNP

Fib-001A42 Cable, Fiber, MTRJ (F) -MTRJ (F) , Strait, 62.5/125, MM, OFNR
(Cable: 1.B.A. Connectors: 2.B.B.)

Fib-001A43 Cable, Fiber, MTRJ (F) -MTRJ (F) , Strait, 62.5/125, MM, OFNP
(Cable: 1.B.B. Connectors: 2.B.B.)

Fib-001A44 Cable, Fiber, MTRJ (F) -MTRJ (F) , Strait, 8.3/125, SM, OFNR

Fib-001A45 Cable, Fiber, MTRJ (F) -MTRJ (F) , Strait, 8.3/125, SM, OFNP

Fib-001A46 Cable, Fiber, DX, ST (SPC) -MTRJ (M) , 62.5/125, MM, OFNR
(Cable: 1.B.A. Connectors: 2.A.A. & 2.B.B.)

Fib-001A47 Cable, Fiber, DX, ST (SPC) -MTRJ (M) , 62.5/125, MM, OFNP
(Cable: 1.B.B. Connectors: 2.A.A. & 2.B.B.)

Fib-001A48 Cable, Fiber, DX, ST (UPC) -MTRJ (M) , 8.3/125, SM, OFNR

Fib-001A49 Cable, Fiber, DX, ST (UPC) -MTRJ (M) , 8.3/125, SM, OFNP

Fib-001A50 Cable, Fiber, DX, SC (SPC) -MTRJ (M) , 62.5/125, MM, OFNR
(Cable: 1.B.A. Connectors: 2.A.B. & 2.B.B.)

Fib-001A51 Cable, Fiber, DX, SC (SPC) -MTRJ (M) , 62.5/125, MM, OFNP
(Cable: 1.B.B. Connectors: 2.A.B. & 2.B.B.)

Fib-001A52 Cable, Fiber, DX, SC (UPC) -MTRJ (M) , 8.3/125, SM, OFNR

Fib-001A53 Cable, Fiber, DX, SC (UPC) -MTRJ (M) , 8.3/125, SM, OFNP

Fib-001A54 Cable, Fiber, DX, ST (UPC) -ST (APC) , 8.3/125, SM, OFNR
(Cable: 1.A.C. Connectors: 2.A.C. & 2.A.G.)

Fib-001A55 Cable, Fiber, DX, ST (UPC) -ST (APC) , 8.3/125, SM, OFNP
(Cable: 1.A.D. Connectors: 2.A.C. & 2.A.G.)

Fib-001A56 Cable, Fiber, DX, ST (UPC) -SC (APC) , 8.3/125, SM, OFNR
(Cable: 1.A.C. Connectors: 2.A.C. & 2.A.H.)

Fib-001A57 Cable, Fiber, DX, ST (UPC) -SC (APC) , 8.3/125, SM, OFNP
(Cable: 1.A.D. Connectors: 2.A.C. & 2.A.H.)

Fib-001A58 Cable, Fiber, DX, SC (UPC) -ST (APC) , 8.3/125, SM, OFNR
(Cable: 1.A.C. Connectors: 2.A.D. & 2.A.G.)

Fib-001A59 Cable, Fiber, DX, SC (UPC) -ST (APC) , 8.3/125, SM, OFNP
(Cable: 1.A.D. Connectors: 2.A.D. & 2.A.G.)

Fib-001A60 Cable, Fiber, DX, SC (UPC) -SC (APC) , 8.3/125, SM, OFNR
(Cable: 1.A.C. Connectors: 2.A.D. & 2.A.H.)

Fib-001A61 Cable, Fiber, DX, SC (UPC) -SC (APC) , 8.3/125, SM, OFNP
(Cable: 1.A.D. Connectors: 2.A.D. & 2.A.H.)

Fib-001A62 Cable, Fiber, DX, ST (APC) -ST (APC) , 8.3/125, SM, OFNR

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(Cable: 1.A.C. Connectors: 2.A.G.)

Fib-001A63	Cable, Fiber, DX, ST (APC) - ST (APC), 8.3/125, SM, OFNP (Cable: 1.A.D. Connectors: 2.A.G.)
Fib-001A64	Cable, Fiber, DX, ST (APC) - SC (APC), 8.3/125, SM, OFNR (Cable: 1.A.C. Connectors: 2.A.G. & 2.A.H.)
Fib-001A65	Cable, Fiber, DX, ST (APC) - SC (APC), 8.3/125, SM, OFNP (Cable: 1.A.D. Connectors: 2.A.G. & 2.A.H.)
Fib-001A66	Cable, Fiber, DX, SC (APC) - SC (APC), 8.3/125, SM, OFNR (Cable: 1.A.C. Connectors: 2.A.H.)
Fib-001A67	Cable, Fiber, DX, SC (APC) - SC (APC), 8.3/125, SM, OFNP (Cable: 1.A.D. Connectors: 2.A.H.)
Fib-001A68	Cable, Fiber, DX, ST (UPC) - ST (UPC), 62.5/125, MM, OFNR (Cable: 1.A.A. Connectors: 2.A.A.)
Fib-001A69	Cable, Fiber, DX, ST (UPC) - ST (UPC), 62.5/125, MM, OFNP (Cable: 1.A.B. Connectors: 2.A.A.)
Fib-001A70	Cable, Fiber, DX, ST (UPC) - SC (UPC), 62.5/125, MM, OFNR (Cable: 1.A.A. Connectors: 2.A.A. & 2.A.B.)
Fib-001A71	Cable, Fiber, DX, ST (UPC) - SC (UPC), 62.5/125, MM, OFNP (Cable: 1.A.B. Connectors: 2.A.A. & 2.A.B.)
Fib-001A72	Cable, Fiber, DX, SC (UPC) - SC (UPC), 62.5/125, MM, OFNR (Cable: 1.A.A. Connectors: 2.A.B.)
Fib-001A73	Cable, Fiber, DX, SC (UPC) - SC (UPC), 62.5/125, MM, OFNP (Cable: 1.A.B. Connectors: 2.A.B.)
Fib-001A74	Cable, Fiber, DX, ST (SPC) - ST (SPC), 62.5/125, MM, OFNR (Cable: 1.B.C. Connectors: 2.A.A. Design 3.A.C.2.)
Fib-001A75	Cable, Fiber, DX, ST (SPC) - ST (SPC), 62.5/125, MM, OFNP (Cable: 1.B.D. Connectors: 2.A.A. Design 3.A.C.2.)
Fib-001A76	Cable, Fiber, DX, ST (UPC) - ST (UPC), 8.3/125, SM, OFNR (Cable: 1.B.E. Connectors: 2.A.C. Design 3.A.C.3.)
Fib-001A77	Cable, Fiber, DX, ST (UPC) - ST (UPC), 8.3/125, SM, OFNP (Cable: 1.B.F. Connectors: 2.A.C. Design 3.A.C.3.)
Fib-001A78	Cable, Fiber, DX, ST (SPC) - SC (SPC), 62.5/125, MM, OFNR (Cable: 1.B.C. Connectors: 2.A.A. & 2.A.B.)
Fib-001A79	Cable, Fiber, DX, ST (SPC) - SC (SPC), 62.5/125, MM, OFNP (Cable: 1.B.D. Connectors: 2.A.A. & 2.A.B.)
Fib-001A80	Cable, Fiber, DX, ST (UPC) - SC (UPC), 8.3/125, SM, OFNR (Cable: 1.B.E. Connectors: 2.A.C. & 2.A.D.)
Fib-001A81	Cable, Fiber, DX, ST (UPC) - SC (UPC), 8.3/125, SM, OFNP (Cable: 1.B.F. Connectors: 2.A.C. & 2.A.D.)
Fib-001A82	Cable, Fiber, DX, SC (SPC) - SC (SPC), 62.5/125, MM, OFNR (Cable: 1.B.C. Connectors: 2.A.B.)

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Fib-001A83	Cable, Fiber, DX, SC (SPC) -SC (SPC) , 62.5/125, MM, OFNP (Cable: 1.B.D. Connectors: 2.A.B.)
Fib-001A84	Cable, Fiber, DX, SC (UPC) -SC (UPC) , 8.3/125, SM, OFNR (Cable: 1.B.E. Connectors: 2.A.D.)
Fib-001A85	Cable, Fiber, DX, SC (UPC) -SC (UPC) , 8.3/125, SM, OFNP (Cable: 1.B.F. Connectors: 2.A.D.)
Fib-001A86	Cable, Fiber, DX, SC (SPC) -LC, 62.5/125, MM, OFNR (Cable: 1.A.A. Connectors: 2.A.B. & 2.B.F. Design 3.A.A, 3.A.C)
Fib-001A87	Cable, Fiber, DX, SC (SPC) -LC, 62.5/125, MM, OFNP (Cable: 1.A.B. Connectors: 2.A.B. & 2.B.F. Design 3.A.A, 3.A.C)
Fib-001A88	Cable, Fiber, DX, SC (UPC) -LC, 8.3/125, SM, OFNR (Cable: 1.A.C. Connectors: 2.A.D. & 2.B.H. Design 3.A.A, 3.A.C)
Fib-001A89	Cable, Fiber, DX, SC (UPC) -LC, 8.3/125, SM, OFNP (Cable: 1.A.D. Connectors: 2.A.D. & 2.B.H. Design 3.A.A, 3.A.C)
Fib-001A90	Cable, Fiber, SX, ST (SPC) -ST (SPC) , 62.5/125, MM, OFNR (Cable: 1.C.A. Connectors: 2.A.A. Design)
Fib-001A91	Cable, Fiber, SX, ST (SPC) -ST (SPC) , 62.5/125, MM, OFNP (Cable: 1.C.B. Connectors: 2.A.A. Design)
Fib-001A92	Cable, Fiber, SX, ST (UPC) -ST (UPC) , 8.3/125, SM, OFNR (Cable: 1.C.C. Connectors: 2.A.C. Design)
Fib-001A93	Cable, Fiber, SX, ST (UPC) -ST (UPC) , 8.3/125, SM, OFNP (Cable: 1.C.D. Connectors: 2.A.C. Design)
Fib-001A94	Cable, Fiber, DX, LC (SPC) -LC (SPC) , 62.5/125, MM, OFNR (Cable: 1.A.M. Connectors: 2.B.F.)
Fib-001A95	Cable, Fiber, DX, LC (SPC) -LC (SPC) , 62.5/125, MM, OFNP (Cable: 1.A.N. Connectors: 2.B.F.)
Fib-001A96	Cable, Fiber, DX, LC (UPC) -LC (UPC) , 8.3/125, SM, OFNR (Cable: 1.A.C. Connectors: 2.B.H. & 2.B.H. Design 3.A.A.)
Fib-001A97	Cable, Fiber, DX, LC (UPC) -LC (UPC) , 8.3/125, SM, OFNP (Cable: 1.A.D. Connectors: 2.B.H. & 2.B.H. Design 3.A.A.)
Fib-001A98	Cable, Fiber, DX, SC (SPC) -SC (SPC) , 50/125, MM, L-O, OFNR (Cable: 1.A.I. Connectors: 2.A.B.)
Fib-001A99	Cable, Fiber, DX, SC (SPC) -SC (SPC) , 50/125, MM, L-O, OFNP (Cable: 1.A.J. Connectors: 2.A.B.)
Fib-001B00	Cable, Fiber, DX, SC (SPC) -SC (SPC) , 62.5/125, MM, L-O, OFNR (Cable: 1.A.G. Connectors: 2.A.B.)
Fib-001B01	Cable, Fiber, DX, SC (SPC) -SC (SPC) , 62.5/125, MM, L-O, OFNP (Cable: 1.A.H. Connectors: 2.A.B.)
Fib-001B02	Cable, Fiber, SX, blue, ST-Un, 62.5/125, MM, OFNR
Fib-001B03	Cable, Fiber, SX, orange, ST-Un, 62.5/125, MM, OFNR



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Fib-001B04 Cable, Fiber, SX, green, ST-Un, 62.5/125, MM, OFNR
Fib-001B05 Cable, Fiber, SX, brown, ST-Un, 62.5/125, MM, OFNR
Fib-001B06 Cable, Fiber, SX, slate, ST-Un, 62.5/125, MM, OFNR
Fib-001B07 Cable, Fiber, SX, white, ST-Un, 62.5/125, MM, OFNR
Fib-001B08 Cable, Fiber, SX, red, ST-Un, 62.5/125, MM, OFNR
Fib-001B09 Cable, Fiber, SX, black, ST-Un, 62.5/125, MM, OFNR
Fib-001B10 Cable, Fiber, SX, yellow, ST-Un, 62.5/125, MM, OFNR
Fib-001B11 Cable, Fiber, SX, violet, ST-Un, 62.5/125, MM, OFNR
Fib-001B12 Cable, Fiber, SX, rose, ST-Un, 62.5/125, MM, OFNR
Fib-001B13 Cable, Fiber, SX, aqua, ST-Un, 62.5/125, MM, OFNR
Fib-001B14 Cable, Fiber, SX, blue, ST-Un, 8.3/125, SM, OFNR
Fib-001B15 Cable, Fiber, SX, orange, ST-Un, 8.3/125, SM, OFNR
Fib-001B16 Cable, Fiber, SX, green, ST-Un, 8.3/125, SM, OFNR
Fib-001B17 Cable, Fiber, SX, brown, ST-Un, 8.3/125, SM, OFNR
Fib-001B18 Cable, Fiber, SX, slate, ST-Un, 8.3/125, SM, OFNR
Fib-001B19 Cable, Fiber, SX, white, ST-Un, 8.3/125, SM, OFNR
Fib-001B20 Cable, Fiber, SX, red, ST-Un, 8.3/125, SM, OFNR
Fib-001B21 Cable, Fiber, SX, black, ST-Un, 8.3/125, SM, OFNR
Fib-001B22 Cable, Fiber, SX, yellow, ST-Un, 8.3/125, SM, OFNR
Fib-001B23 Cable, Fiber, SX, violet, ST-Un, 8.3/125, SM, OFNR
Fib-001B24 Cable, Fiber, SX, rose, ST-Un, 8.3/125, SM, OFNR
Fib-001B25 Cable, Fiber, SX, aqua, ST-Un, 62.5/125, MM, OFNP
Fib-001B26 Cable, Fiber, SX, blue, SC-Un, 62.5/125, MM, OFNR
Fib-001B27 Cable, Fiber, SX, orange, SC-Un, 62.5/125, MM, OFNR
Fib-001B28 Cable, Fiber, SX, green, SC-Un, 62.5/125, MM, OFNR
Fib-001B29 Cable, Fiber, SX, brown, SC-Un, 62.5/125, MM, OFNR
Fib-001B30 Cable, Fiber, SX, slate, SC-Un, 62.5/125, MM, OFNR

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Fib-001B31 Cable, Fiber, SX, white, SC-Un, 62.5/125, MM, OFNR

Fib-001B32 Cable, Fiber, SX, red, SC-Un, 62.5/125, MM, OFNR

Fib-001B33 Cable, Fiber, SX, black, SC-Un, 62.5/125, MM, OFNR

Fib-001B34 Cable, Fiber, SX, yellow, SC-Un, 62.5/125, MM, OFNR

Fib-001B35 Cable, Fiber, SX, violet, SC-Un, 62.5/125, MM, OFNR

Fib-001B36 Cable, Fiber, SX, rose, SC-Un, 62.5/125, MM, OFNR

Fib-001B37 Cable, Fiber, SX, aqua, SC-Un, 62.5/125, MM, OFNR

Fib-001B38 Cable, Fiber, SX, blue, SC-Un, 8.3/125, SM, OFNR

Fib-001B39 Cable, Fiber, SX, orange, SC-Un, 8.3/125, SM, OFNR

Fib-001B40 Cable, Fiber, SX, green, SC-Un, 8.3/125, SM, OFNR

Fib-001B41 Cable, Fiber, SX, brown, SC-Un, 8.3/125, SM, OFNR

Fib-001B42 Cable, Fiber, SX, slate, SC-Un, 8.3/125, SM, OFNR

Fib-001B43 Cable, Fiber, SX, white, SC-Un, 8.3/125, SM, OFNR

Fib-001B44 Cable, Fiber, SX, red, SC-Un, 8.3/125, SM, OFNR

Fib-001B45 Cable, Fiber, SX, black, SC-Un, 8.3/125, SM, OFNR

Fib-001B46 Cable, Fiber, SX, yellow, SC-Un, 8.3/125, SM, OFNR

Fib-001B47 Cable, Fiber, SX, violet, SC-Un, 8.3/125, SM, OFNR

Fib-001B48 Cable, Fiber, SX, rose, SC-Un, 8.3/125, SM, OFNR

Fib-001B49 Cable, Fiber, SX, aqua, SC-Un, 8.3/125, MM, OFNR

Fib-001B50 Cable, Fiber, SX, blue, SC(APC)-Un, 8.3/125, SM, OFNR
(Cable: 1.C.F. Connector: 2.A.G. Design 3.A.B.)

Fib-001B51 Cable, Fiber, SX, orange, SC(APC)-Un, 8.3/125, SM, OFNR
(Cable: 1.C.F. Connector: 2.A.G. Design 3.A.B.)

Fib-001B52 Cable, Fiber, SX, green, SC(APC)-Un, 8.3/125, SM, OFNR
(Cable: 1.C.F. Connector: 2.A.G. Design 3.A.B.)

Fib-001B53 Cable, Fiber, SX, brown, SC(APC)-Un, 8.3/125, SM, OFNR
(Cable: 1.C.F. Connector: 2.A.G. Design 3.A.B.)

Fib-001B54 Cable, Fiber, SX, slate, SC(APC)-Un, 8.3/125, SM, OFNR
(Cable: 1.C.F. Connector: 2.A.G. Design 3.A.B.)

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Fib-001B55 Cable, Fiber, SX, white, SC(APC)-Un, 8.3/125, SM, OFNR
(Cable: 1.C.F. Connector: 2.A.G. Design 3.A.B.)

Fib-001B56 Cable, Fiber, SX, red, SC(APC)-Un, 8.3/125, SM, OFNR
(Cable: 1.C.F. Connector: 2.A.G. Design 3.A.B.)

Fib-001B57 Cable, Fiber, SX, black, SC(APC)-Un, 8.3/125, SM, OFNR
(Cable: 1.C.F. Connector: 2.A.G. Design 3.A.B.)

Fib-001B58 Cable, Fiber, SX, yellow, SC(APC)-Un, 8.3/125, SM, OFNR
(Cable: 1.C.F. Connector: 2.A.G. Design 3.A.B.)

Fib-001B59 Cable, Fiber, SX, violet, SC(APC)-Un, 8.3/125, SM, OFNR
(Cable: 1.C.F. Connector: 2.A.G. Design 3.A.B.)

Fib-001B60 Cable, Fiber, SX, rose, SC(APC)-Un, 8.3/125, SM, OFNR
(Cable: 1.C.F. Connector: 2.A.G. Design 3.A.B.)

Fib-001B61 Cable, Fiber, SX, aqua, SC(APC) -Un, 8.3/125, MM, OFNR
(Cable: 1.C.F. Connector: 2.A.G. Design 3.A.B.)

Fib-001B62 Cable, Fiber, DX, SC(SPC) -LC(SPC) , 50/125, MM, OFNR
(Cable: 1.A.E. Connectors: 2.A.H. & 2.B.G. Design 3.A.C & 3.E)

Fib-001B63 Cable, Fiber, DX, SC(SPC) -LC(SPC) , 50/125, MM, OFNP
(Cable: 1.A.F. Connectors: 2.A.H. & 2.B.G. Design 3.A.C & 3.E)

Fib-001B64 Cable, Fiber, DX, LC(SPC) -LC(SPC) , 50/125, MM, OFNR
(Cable: 1.A.K. Connectors: 2.B.G. Design 3.E)

Fib-001B65 Cable, Fiber, DX, LC(SPC) -LC(SPC) , 50/125, MM, OFNP
(Cable: 1.A.L. Connectors: 2.B.G. Design 3.E)

Fib-001B66 Cable, Fiber, DX, SC(SPC) -LC, 62.5/125, MM, OFNR
(Cable: 1.A.M. Connectors: 2.A.B. & 2.B.F. Design 3.A.A)

Fib-001B67 Cable, Fiber, DX, SC(SPC) -LC, 62.5/125, MM, OFNP
(Cable: 1.A.N. Connectors: 2.A.B. & 2.B.F. Design 3.A.A)

Fib-001B68 Cable, Fiber, DX, SC(SPC) -LC(SPC) , 50/125, MM, OFNR
(Cable: 1.A.K. Connectors: 2.A.H. & 2.B.G. Design 3.E)

Fib-001B69 Cable, Fiber, DX, SC(SPC) -LC(SPC) , 50/125, MM, OFNP
(Cable: 1.A.L. Connectors: 2.A.H. & 2.B.G. Design 3.E)

Fib-001B70 Cable, Fiber, DX, LC(SPC) -LC(SPC) , 50/125, MM, OFNR
(Cable: 1.A.E. Connectors: 2.B.J. Design 3.E)

Fib-001B71 Cable, Fiber, DX, LC(SPC) -LC(SPC) , 50/125, MM, OFNP
(Cable: 1.A.F. Connectors: 2.B.J. Design 3.E)

Fib-001B72 Cable, Fiber, DX, LC(SPC) -LC(SPC) , 50/125, MM, OFNR
(Cable: 1.A.L. Connectors: 2.B.J. Design 3.E.A&B)

Fib-001B73 Cable, Fiber, DX, LC(SPC) -LC(SPC) , 50/125, MM, OFNP
(Cable: 1.A.L. Connectors: 2.B.J. Design 3.E.A&B)

Fib-001B74 Cable, Fiber, DX, LC(SPC) -LC(SPC) , 50/125, MM, OFNR
(Cable: 1.C.G. Connectors: 2.B.J. Design 3.E.C)

Fib-001B75 Cable, Fiber, DX, LC(SPC) -LC(SPC) , 50/125, MM, OFNP

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(Cable: 1.C.G. Connectors: 2.B.J. Design 3.E.C)

Fib-001B76 Cable, Fiber, DX, LC (SPC) -LC (SPC) , 50/125, MM, OFNR
(Cable: 1.A.O Connectors: 2.B.J. Design 3.E.C)

Fib-001B77 Cable, Fiber, DX, LC (SPC) -LC (SPC) , 50/125, MM, OFNP
(Cable: 1.A.P Connectors: 2.B.J. Design 3.E.C)

Fib-001B78 Cable, Fiber, DX, ST (SPC) -LC (SPC) , 62.5/125, MM, OFNR
(Cable: 1.A.A. Connectors: 2.A.A. & 2.B.F. Design 3.A.A, 3.A.C)

Fib-001B79 Cable, Fiber, DX, ST (SPC) -LC (SPC) , 62.5/125, MM, OFNP
(Cable: 1.A.B. Connectors: 2.A.A. & 2.B.F. Design 3.A.A, 3.A.C)

Fib-001B80 Cable, Fiber, DX, ST (UPC) -LC (UPC) , 8.3/125, SM, OFNR
(Cable: 1.A.C. Connectors: 2.A.C. & & 2.B.H. Design 3.A.A, 3.A.C)

Fib-001B81 Cable, Fiber, DX, ST (UPC) -LC (UPC) , 8.3/125, SM, OFNP
(Cable: 1.A.D. Connectors: 2.A.C. & & 2.B.H. Design 3.A.A, 3.A.C)

Fib-001B82 Cable, Fiber, DX, LC (UPC) -LC (UPC) , 62.5/125, MM, OFNR
(Cable: 1.A.A. Connectors: 2.B.J. & & 2.B.J. Design 3.A.A)

Fib-001B83 Cable, Fiber, DX, LC (UPC) -LC (UPC) , 62.5/125, MM, OFNP
(Cable: 1.A.B. Connectors: 2.B.J. & & 2.B.J. Design 3.A.A)

Fib-001B84 Cable, Fiber, DX, ST (SPC) -LC (SPC) , 62.5/125, MM, OFNR
(Cable: 1.A.A. Connectors: 2.A.I. & 2.B.J. Design 3.A.A, 3.A.C)

Fib-001B85 Cable, Fiber, DX, ST (SPC) -LC (SPC) , 62.5/125, MM, OFNP
(Cable: 1.A.B. Connectors: 2.A.I & 2.B.J. Design 3.A.A, 3.A.C)

Fib-001B86 Cable, Fiber, DX, ST (UPC) -LC (UPC) , 8.3/125, SM, OFNR
(Cable: 1.A.C. Connectors: 2.A.J & & 2.B.L. Design 3.A.A, 3.A.C)

Fib-001B87 Cable, Fiber, DX, ST (UPC) -LC (UPC) , 8.3/125, SM, OFNP
(Cable: 1.A.D. Connectors: 2.A.J & & 2.B.L. Design 3.A.A, 3.A.C)

Fib-001B88 Cable, Fiber, DX, ST (SPC) -LC (SPC) , 62.5/125, MM, OFNR
(Cable: 1.A.Q. Connectors: 2.A.I. & 2.B.J. Design 3.A.A, 3.A.C)

Fib-001B89 Cable, Fiber, DX, ST (SPC) -LC (SPC) , 62.5/125, MM, OFNP
(Cable: 1.A.R. Connectors: 2.A.I & 2.B.J. Design 3.A.A, 3.A.C)

Fib-001B90 Cable, Fiber, DX, ST (UPC) -LC (UPC) , 8.3/125, SM, OFNR
(Cable: 1.A.S. Connectors: 2.A.J & & 2.B.L. Design 3.A.A, 3.A.C)

Fib-001B91 Cable, Fiber, DX, ST (UPC) -LC (UPC) , 8.3/125, SM, OFNP
(Cable: 1.A.T. Connectors: 2.A.J & & 2.B.L. Design 3.A.A, 3.A.C)

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ST-SC-LC Fiber Matrix

Duplex Zipcords - Super (SPC) Polish OFNP

50u	3mm G.I.			2mm G.I.			1.6mm G.I.			900um G.I.			3mm L-O		
	ST	SC	LC	ST	SC	LC	ST	SC	LC	ST	SC	LC	ST	SC	LC
ST	1A25	1A27													
SC	1A27	1A29	1B63			1B69								1A99	
LC		1B63	1B71		1B69	1B65			1B77			1B75			
						1B73									

62.5u	3mm G.I.			2mm G.I.			1.6mm G.I.			900um G.I.			3mm L-O		
	ST	SC	LC	ST	SC	LC	ST	SC	LC	ST	SC	LC	ST	SC	LC
ST	1A01	1A05	1B79												
			1B85												
SC	1A05	1A09	1A87			1B67								1B01	
LC	1B79	1A87	1B83		1B67	1A95									
	1B85														

Duplex Zipcords - Ultra (UPC) Polish OFNP

8.3u	3mm SM			2mm SM			1.6mm SM			900um SM					
	ST	SC	LC	ST	SC	LC	ST	SC	LC	ST	SC	LC			
ST	1A03	1A07	1B81												
			1B87												
SC	1A07	1A11	1A89												
LC	1B81	1A89	1A97												
	1B87														

G.I. = Graded Index
L-O = Laser Optimized
SM = Singlemode