



FIBER

ASSEMBLIES

Hubbell's expanded line of pre-terminated fiber assemblies includes the labor-saving BIDnet engineered trunks, cords, hydras, and pigtails. The Hubbell BIDnet program is a custom quote and make-to-order service, featuring premium quality cable and components, assembled locally for quick, reliable delivery. Other new products include a full range of pigtail bundles, ribbon pigtails, high density LC and keyed LC patch cords, and MSFP style equipment cords.





ASSEMBLIES

PRODUCT	PAGE
FIBER TRUNK ASSEMBLIES	J3
FIBER PATCH CORDS.	J5
FIBER PIGTAILS, SINGLE AND BUNDLED	J7
SPECIALTY PATCH CORDS AND PIGTAILS.	J8



Performance

Premium OM3 and OM4 multimode fiber; bend insensitive OS2 singlemode fiber; featuring low loss MTP terminations.



Custom Made to Order

Configured to exact customer specifications.



Quality and Reliability

Precision factory machine-polished epoxy terminations, 100% tested.



Labor Savings

Ideal solution for data centers, requiring no field termination.

HUBBELL Advantage

- MISSION CRITICAL® 25-Year Warranty*
- Plug-n-Play Installation for Rapid Deployment
- 100% Factory Tested, Data Included
- RoHS Compliant

*Project must be registered in accordance with the Hubbell MISSION CRITICAL® program.

Standards/Listings/Verifications

- TIA-568-C.0, C.1 and C.3
- Telcordia GR-326-CORE
- Telcordia GR-409
- TIA-604-FOCIS
- ANSI/ICEA S-83-596
- IEEE 802.3

MTP Connector Specifications

- Gender: female has no alignment pins; male has pins
- MM insertion loss: <0.50 dB (standard loss)
- MM insertion loss: <0.35 dB (low loss)
- SM insertion loss: <0.55 dB (0.35 dB typical)
- SM return loss: >50 dB
- MM return loss: >26 dB
- Standard polarity: TIA-568-C.3, Type "A"

Single Fiber Connector Specifications

- MM insertion loss: <0.50 dB (0.35 dB typical)
- SM insertion loss: <0.35 dB (0.15 dB typical)
- SM UPC return loss: >50 dB
- SM APC return loss: >65 dB
- MM return loss: >26 dB
- Ferrule material: zirconia ceramic
- Mating durability: 500 cycles



MTP Fiber Cords

Available Options

- Connectors: MTP female
- Fiber types: 62/OM1, 50/OM2, 50/OM3, 50/OM4, SM/OS2
- Fiber strand count: 12, 24, 48, 72, 96 and 144 fibers
- Cable: plenum, riser, or LSZH (armored or non-armored)
- Polarity: TIA-568C.3 Type A, B, or C



MTP Male and Gender Change Cords

Available Options

- Connectors: MTP female or MTP male
- Fiber types: 50/OM3, 50/OM4, SM/OS2
- Fiber strand count: 12, 24, 48, 72, 96 and 144 fibers
- Cable: plenum, riser, or LSZH (armored or non-armored)
- Polarity: TIA-568C.3 Type A, B, or C



40 Gb/s and 100 Gb/s MTP Fiber Cords

Available Options

- Connectors: MTP female, 12-fiber or 24-fiber
- Fiber types: 50/OM3, 50/OM4
- 40 Gb/s fiber strand count: 12, 24, 48, 72, 96 and 144 fibers
- 100 Gb/s fiber strand count: 24 and 48 fibers
- Cable: plenum, riser, or LSZH
- Polarity: 40GBASE-SR4 or 100GBASESR10
- Lengths: 1 to 150 meters (3 to 500 ft) channel
- Application limits:
 - OM3 40G/100G limit: 100 m (328 ft)
 - OM4 40G/100G limit: 150 m (492 ft)



Distribution Trunks and Pigtails

Available Options

- Connectors: LC, MSFP, keyed LC, SC, SC/APC, ST, FC, FC/APC
- Fiber types: 62/OM1, 50/OM2, 50/OM3, 50/OM4, SM/OS2
- Fiber strand count: 6, 12, 24, 48, 72, and 96 fibers
- Cable: plenum, riser, or LSZH (armored or non-armored)
- Fan-out options: 900 micron buffer



Transition Assemblies

Available Options

- Connectors: MTP female to LC or SC duplex
- Fiber types: 50/OM3, 50/OM4, SM/OS2
- Fiber strand count: 12, 24 and 48 fibers
- Cable: plenum, riser, or LSZH (armored or non-armored)
- Polarity: TIA-568C.3, Type A,B or C



Mesh Bundle Trunks (2.0mm Duplex Zip Cord)

Available Options

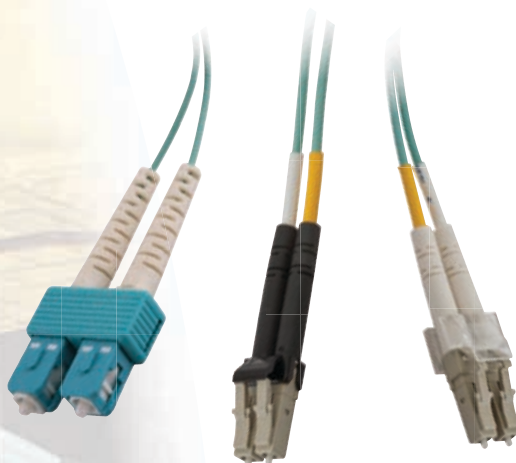
- Connectors: LC, MSFP, keyed LC, SC, SC/APC, ST, FC, FC/APC
- Fiber types: 62/OM1, 50/OM2, 50/OM3, 50/OM4, SM/OS2
- Fiber strand count: 6, 12, 24, 48, 72, and 96 fibers
- Cable: plenum, riser, or LSZH
- Outer sheath: polyester mesh

Distribution Fan-Out Trunks and Pigtails

Available Options

- Connectors: LC, MSFP, keyed LC, SC, SC/APC, ST, FC, FC/APC
- Fiber types: 62/OM1, 50/OM2, 50/OM3, 50/OM4, SM/OS2
- Fiber strand count: 6, 12, 24, 48, 72 and 96 fibers
- Cable: plenum, riser, or LSZH (armored or non-armored)
- Fan-out: 2.0mm furcation tubing

All BIDnet fiber trunk assemblies are custom made-to-order items. Please call our inside sales team for price and lead time. Refer to product data sheets for nomenclature and detailed design information. Application limits apply to available lengths.



HUBBELL Advantage

- Premium Quality Cable and Components, 100% Factory Tested
- Individually Bagged with Dust Caps and Factory Test Data Included, Ready to Install
- Custom Configurations Quoted and Made to Order
- Space-Saving 2.0mm Jacket, RoHS Compliant

Specifications

- Mated pair insertion loss:
MM: <0.50 dB (0.35 dB typical)
SM: <0.35 dB (0.15 dB typical)
- Return loss: SM >55 dB, MM >26 dB
- Ferrule material: zirconia ceramic
- Mating durability: 500 cycles

Standards/Listings/Verifications

- TIA-568-C.3
- TIA-604-FOCIS
- Telcordia GR-326-CORE

SC Duplex to
SC Duplex



SC to SC Patch Cords

Duplex/Multimode

	Cable Color	Catalog No.
SC to SC, 62.5, OM1	OR	DFPCSCSCCyyMM
SC to SC, 50, OM2	OR	DFPCSCSCDyyMM
SC to SC, 50, OM3	AQ	DFPCSCSCEyyMM

Duplex/Singlemode

SC to SC, SM, OS2	YL	DFPCSCSCSyySM
-------------------	----	----------------------

Replace **yy** with standard lengths of **1, 2, 3, 5** or **10** meters.

MT-RJ to
MT-RJ Duplex MM



MT-RJ Duplex to
ST-style Duplex MM



MT-RJ Patch Cords

Duplex/Multimode

	Cable Color	Catalog No.
MT-RJ to MT-RJ, 62.5, OM1	BL/OR	DFPCRJRJCyyMM
MT-RJ to ST-style, 62.5, OM1	BL/OR	DFPCRJSTCyyMM
MT-RJ to SC, 62.5, OM1	BL/OR	DFPCRJSCCyyMM

Replace **yy** with standard lengths of **1, 2, 3** or **5** meters.

ST-style to
ST-style Duplex



ST-Style to ST-Style Patch Cords

Duplex/Multimode

	Cable Color	Catalog No.
ST to ST-style, 62.5, OM1	OR	DFPCSTSTCyyMM
ST to ST-style, 50, OM2	OR	DFPCSTSTDyyMM

Duplex/Singlemode

ST to ST-style, SM, OS2	YL	DFPCSTSTSyySM
-------------------------	----	----------------------

Replace **yy** with standard lengths of **1, 2, 3, 5** or **10** meters.

SC Duplex to
ST-style Duplex



ST-Style to SC Patch Cords

Duplex/Multimode

	Cable Color	Catalog No.
ST-style to SC, 62.5, OM1	OR	DFPCSTSCCyyMM
ST-style to SC, 50, OM2	OR	DFPCSTSCDyyMM

Duplex/Singlemode

ST-style to SC, SM, OS2	YL	DFPCSTSCSyySM
-------------------------	----	----------------------

Replace **yy** with standard lengths of **1, 2, 3, 5** or **10** meters.


LC Patch Cords
Duplex/Multimode

	Cable Color	Catalog No.
LC to LC, 62.5, OM1	OR	DFPCLCLCC_{yy}MM
LC to ST-style, 62.5, OM1	OR	DFPCLCSTC_{yy}MM
LC to SC, 62.5, OM1	OR	DFPCLSCC_{yy}MM
LC to LC, 50, OM2	OR	DFPCLCLCD_{yy}MM
LC to SC, 50, OM2	OR	DFPCLSCD_{yy}MM
LC to LC, 50, OM3	AQ	DFPCLCLCE_{yy}MM
LC to SC, 50, OM3	AQ	DFPCLSCCE_{yy}MM
LC to LC, 50, OM4	AQ	DFPCLCLCF_{yy}MM
LC to sC, 50, OM4	AQ	DFPCLSCF_{yy}MM

Duplex/Singlemode

LC to LC, singlemode, OS2	YL	DFPCLCLCS_{yy}SM
LC to ST-style, singlemode, OS2	YL	DFPCLCSTS_{yy}SM
LC to SC, singlemode, OS2	YL	DFPCLSCS_{yy}SM

Replace **yy** with standard lengths of **1, 2, 3** or **5** meters.

High Density LC Uniboot Patch Cords

Description	Cable Color	Catalog No.
LC to LC, 50, OM3	AQ	HDPCLC50G3M_{yy}
LC to SC, 50, OM3	AQ	HDPCLCSC50G3M_{yy}
LC to LC, 50, OM4	AQ	HDPCLC50G4M_{yy}
LC to SC, 50, OM4	AQ	HDPCLCSC50G4M_{yy}

Replace **yy** with standard lengths of **1, 2, 3, 4, 5, 6, 8** or **10** meters.

MSFP to LC Patch Cords

Description	Cable Color	Catalog No.
MSFP to LC, 50, OM3	AQ	MSFPLC50G3M_{yy}
MSFP to LC, 50, OM4	AQ	MSFPLC50G4M_{yy}

Replace **yy** with standard lengths of **1, 2, 3, 4, 5, 6, 8** or **10** meters.



LC Duplex
to LC
Duplex





HUBBELL Advantage

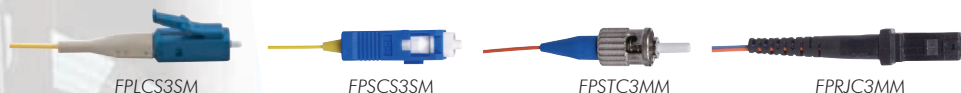
- Premium Quality Cable and Components, 100% Factory Tested**
- Fusion Splicing Eliminates Connector Field Termination. Factory Test Data Included**
- Custom Configurations Quoted and Made to Order**
- RoHS Compliant**

Specifications

- Mated pair insertion loss:
MM: <0.50 dB (0.35 dB typical)
SM: <0.35 dB (0.15 dB typical)
- Return loss: SM >55 dB, MM >26 dB, SM/APC >65 dB
- Ferrule material: zirconia ceramic
- Mating durability: 500 cycles
- Operating temperature: 0°C to +75°C

Standards/Listings/Verifications

- TIA-568-C.3
- TIA-604-FOCIS
- Telcordia GR-326-CORE



Single Fiber Pigtails, 900 Micron Buffer, 3 Meter Length

Fiber Type	Buffer Color	LC	SC	ST-Style	MT-RJ	SC/APC
MM 62.5, OM1	Orange	FPLCC3MM	FPSCC3MM	FPSTC3MM	FPRJC3MM	—
MM 50, OM2	Orange	FPLCD3MM	FPSCD3MM	FPSTD3MM	FPRJD3MM	—
MM 50, OM3	Aqua	FPLCE3MM	FPSC3MM	FPSTE3MM	FPRJE3MM	—
MM 50, OM4	Aqua	FPLC4F3MM	FPSC4F3MM	FPSTF3MM	—	—
Singlemode, OS2	Yellow	FPLCS3SM	FPSCS3SM	FPSTS3SM	—	—
Singlemode, OS2	Green	—	—	—	—	FPSCAS3SM



6 and 12-Fiber Pigtail Bundles, 900 Micron Buffer, 3 Meter Length

Catalog No. **FPBKRXCNM**

FPBK = Fiber Pigtail Bundle Kit

R = Riser

X = 6 for 6-strand

X = 12 for 12-strand

C = Connector type: (LC, SC, SCA, ST, FC, FCA)

N = Fiber type

- 1 for 62.5 micron (OM1) multimode
- 2 for 50 micron (OM2) multimode
- 3 for 50 micron (OM3) multimode
- 4 for 50 micron (OM4) multimode
- 6 for singlemode (OS2)

M = Multimode (Use S for singlemode)

Example: **FPBK6LC6S**

Buffer Color Code Sequence: Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua



Fiber Ribbon Fan-Out Pigtails, 24" Break-Out

Catalog No. **FRPTRXXCNMLXF**

FRPT = Fiber Ribbon Pigtail Trunk (fan-out)

R = Riser

RJ = Riser/un-jacketed ribbon

XX = Fiber count (12, 24, 36, 48, 60, 72, 84, 96, 108, 120, 132, 144)

C = Connector type: (LC, SC, SCA, ST, FC, FCA)

N = Fiber type

- 1 for 62.5 micron (OM1) multimode
- 2 for 50 micron (OM2) multimode
- 3 for 50 micron (OM3) multimode
- 4 for 50 micron (OM4) multimode
- 6 for singlemode (OS2)

M = Multimode (Use S for singlemode)

L = Length delimiter

X = Length overall

F = Feet (leave blank for meters)

Example: **FRPTR48LC6SL25F**

Buffer Color Code Sequence: Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua

Note: Contact Hubbell Premise Wiring for custom configurations, quoted and made to order. Refer to product data sheets for nomenclature and detailed design information.



How to Specify a Custom Assembly

- Specify patch cord or pigtail
- Specify flame rating (OFNR or OFNP)
- Choose 2.0mm jacket or 900 micron buffer cable
- For 900mm pigtails, specify buffer color
- Select connector type each end
- Select fiber type
- Specify overall length

Contact Hubbell Customer Service to configure a high performance factory-tested patch cord or pigtail custom made to order. Also refer to standard configurations available in stock lengths.

Available Connector Options

- LC
- ST
- SC
- SC/APC
- ST-style
- FC
- FC/APC
- MTRJ male
- MTRJ female
- Keyed LC: Yellow, Red, Blue, or Green

Available Fiber Options

- 62.5/OM1 legacy multimode
- 50/OM2 multimode
- 50/OM3 laser optimized multimode
- 50/OM4 laser optimized multimode
- OS2 singlemode

Available Cable Options

- Plenum OFNP, simplex or duplex
- Riser OFNR, simplex or duplex

Standard 2.0mm Cable Jacket Colors

- 62.5/OM1: Orange
- 50/OM2: Orange
- 50/OM3: Aqua
- 50/OM4: Aqua
- SM/OS2: Yellow



- Quick Response Quote and Delivery Made to Order
- Custom Configured Assemblies to any Length, Connector Combination, or Fiber Type
- 100% Factory Tested, Data Included
- RoHS Compliant, Small Form 2.0mm Cable

Specifications (Per End)

- MM insertion loss: <0.50 dB (0.35 dB typical)
- SM insertion loss: <0.35 dB (0.15 dB typical)
- SM UPC return loss: >50 dB
- SM APC return loss: >65 dB
- MM return loss: >26 dB
- Ferrule material: zirconia ceramic
- Mating durability: 500 cycles

All BIDnet fiber trunk assemblies are custom made-to-order items. Please call our insides sales team for price and lead time. Refer to product data sheets for nomenclature and detailed design information. Application limits apply to available lengths.