

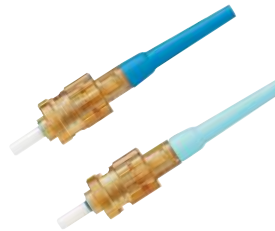
ST2 OptiCam™ Pre-Polished Fiber Optic Connectors

PANDUIT™

SPECIFICATION SHEET

specifications

ST2 pre-polished fiber optic connectors shall be TIA/EIA-604 FOCIS-2 compliant and contain a factory-terminated fiber, eliminating field polishing and adhesive. ST2 pre-polished connectors shall have an average insertion loss of 0.3dB per mated pair for multimode and singlemode fiber. ST2 pre-polished connectors shall capture fiber and buffer in one action allowing for up to two re-terminations with no degradation in performance.



technical information

| | |
|--------------------------------|---|
| Standards requirements: | TIA/EIA-604 FOCIS-2 compliant; exceeds TIA/EIA-568-D.3 requirements |
| Fiber compatibility: | 62.5/125µm OM1, 50/125µm OM2, 50/125µm OM3/OM4 and 9/125µm OS2 |
| Fiber size and type: | 900µm tight-buffered fiber 250µm coated fiber, by using F250BT-C 250 micron fiber build-up tube kit or FO6CB or FO12CB fan-out kit |
| Jacketed cable size: | 1.6mm – 2.0mm and 3.0mm jacketed cable with optional boots |
| Ferrule type: | Zirconia ceramic |
| Insertion loss: | 0.3dB average (multimode and singlemode) |
| Return loss: | >20dB (multimode), >26dB (10Gig multimode), >50dB (singlemode) |

key features and benefits

ST2 OptiCam™ Connectors

| | |
|---|--|
| Factory pre-polished fiber stub endface | Eliminates inconsistent and time-consuming field polishing to deliver required optical performance; reduces termination time (less than half the time of field polish connectors) and the number of installation tools required |
| Dual cam design with fiber and buffer clamps | Secures both the fiber and the buffer during the camming step to facilitate consistent termination results; reduces the termination time compared to conventional termination methods Allows up to two re-terminations to achieve optimum termination results; reduces the number of rejected connectors and terminations to provide yield rates approaching 100% for lower installed costs |
| Translucent housing assembly | Facilitates inspection of the fiber termination quality; results in rapid installations, improved termination yields, and lower installed costs |
| Mechanical cable retention | Consistently provides higher than industry standard cable retention; requires no adhesive, speeding installation |

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OptiCam™ 2 Termination Tool

| | |
|-----------------------------------|---|
| Universal termination tool | The OptiCam™ 2 Termination Tool is designed to offer certainty of termination of Opti-Cam connectors |
| LCD Display | Guides the user through the termination process with simple step-by-step prompts and on-screen visuals. Indicates the field fiber and fiber stub are in proper alignment before camming |
| Calculated Insertion Loss | Provides calculated insertion loss value on completion of the camming process |

applications

ST2 fiber optic connectors are widely used in fiber optic backbone and horizontal applications for high-speed data transmission. Typical applications for ST2 OptiCam™ Connectors include maintenance or emergency restoration of fiber networks and retrofit/initial install in both behind-the-wall (BTW) and in the permanent side of panelized interconnect and cross-connect.

ST2 OptiCam™ Connectors eliminate the need for end face polishing and adhesive providing easier, faster installation, especially in remote areas and confined spaces. The hand-held OptiCam™ 2 Termination Tool gives installers the flexibility to terminate in very close proximity to the application without having to switch tools or find benchtop space.

ST2 OptiCam™ Pre-Polished Connectors with Zirconia Ceramic Ferrules

| | |
|----------------------------|------------------------|
| 50/125µm simplex: | FST2MCXAQ [▲] |
| 50/125µm simplex: | FST2MC5BL [▲] |
| 62.5/125µm simplex: | FST2MC6EI [▲] |
| 9/125µm simplex: | FST2SCBU [▲] |

OptiCam™ 1.6/2.0mm Boot Assemblies

| | |
|---------------------------|-------------|
| Multimode (aqua): | FMCBT2AQ-X* |
| Multimode (black): | FMCBT2BL-X |
| Singlemode (blue): | FSCBT2BU-X |

OptiCam™ 3.0mm Boot Assemblies

| | |
|---------------------------|-------------|
| Multimode (aqua): | FMCBT3AQ-X* |
| Multimode (black): | FMCBT3BL-X |
| Singlemode (blue): | FSCBT3BU-X |

*X = bag of 10 boots; 100 per carton.

OptiCam™ 2 Termination Tooling

| | |
|--------------------------|---------------------------|
| OptiCam™ 2 | |
| Termination Kits: | FOCTT2-KIT FOCTT2-BKIT |
| ST cradles: | FSTC2 |

Mini-Com™ ST Adapter Modules

| | |
|--------------------|---------|
| Multimode: | CMST** |
| Singlemode: | CMSTZ** |

**Substitute for module color: EI = Electric Ivory, BU = Blue, BL = Black, IW = Off White, AW = Arctic White.

Opticom™ ST Fiber Adapter Panels

| | |
|-------------------------------|----------|
| 6 simplex MM adapters: | FAP6WST |
| 6 simplex SM adapters: | FAP6WSTZ |
| 8 simplex MM adapters: | FAP8WST |
| 8 simplex SM adapters: | FAP8WSTZ |

▲Add -C to simplex connector part numbers for bulk packs of 100 connectors.

▲Substitute for fiber type: 6 = 62.5/125µm OM1, 5 = 50/125µm OM2, X = 50/125µm OM3/OM4 or 9 = 9/125µm OS2.

ST2 OptiCam™ Pre-Polished Fiber Optic Connectors

performance information

| Test Parameter | Description | Result |
|--|--|---|
| Qualification test suite (TIA/EIA-568-D.3 requirements) | Complete testing protocol per TIA/EIA-568-D.3 using TIA/EIA FOTPs that include mechanical, environmental, and optical test sequences | Exceeds TIA/EIA-568-D.3 requirements |
| Connector intermatibility | Dimensional and material compliance to TIA/EIA standards | All connectors are FOCIS compliant with TIA/EIA-604-2-A |
| Repeated mating | 500 mate/unmate cycles Max. insertion loss: 0.75dB Min. return loss: 20dB | Exceeds TIA/EIA-568-D.3 test requirements: <0.1dB additional insertion loss |
| Cable retention (straight pull): 900µm tight-buffered fiber Jacketed cable | TIA/EIA-568-D.3 requirement: 0.5 lbs. load applied with <0.5dB increase in insertion loss after test 11.24 lbs. load applied with <0.5dB increase in insertion loss after test | Exceeds TIA/EIA-568-D.3 requirements: 1.0 lbs. avg. load applied with <0.2dB increase in insertion loss after test 11.24 lbs. load applied with <0.1dB increase in insertion loss after test* |

*Jacketed cable retention tensile load may vary based on specific manufacturer's jacketed cable diameter and aramid yarn count.

selection information

| Part Number | Connector Type | Ferrule Material | Fiber | Ferrule Finish | Backbone Color | Boot Color | Average Insertion Loss** | Return Loss |
|-------------|----------------|------------------|------------------|----------------|----------------|----------------|--------------------------|-------------|
| FST2MCXAQ | Simplex | Zirconia Ceramic | 50/125µm OM3/OM4 | SPC | Natural | Aqua | 0.3dB | >26dB |
| FST2MC5BL | Simplex | Zirconia Ceramic | 50/125µm OM2 | SPC | Natural | Black | 0.3dB | >20dB |
| FST2MC6EI | Simplex | Zirconia Ceramic | 62.5/125µm OM1 | SPC | Natural | Electric Ivory | 0.3dB | >20dB |
| FST2SCBU | Simplex | Zirconia Ceramic | 9/125µm OS2 | UPC | Natural | Blue | 0.3dB | >50dB |

**All connector insertion loss values calculated from tests taken with precision launch jumper assemblies per TIA/EIA-FOTP-171.

OptiCam™ Boot Assemblies

For 1.6/2.0mm Jacketed Cable



FSCBT2BU-X

For 3.0mm Jacketed Cable



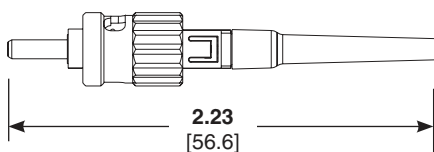
FSCBT3BU-X

OptiCam™ 2 Termination Kit



FOCT2-BKIT
(Patch cords available separately or in termination kits)

ST2 OptiCam™ Pre-Polished Simplex Connector



FST2MC**

***Substitute for fiber type: For multimode, insert XAQ for 10Gig 50/125µm, 5BL for 50/125µm, or 6BL for 62.5/125µm. Singlemode boot assembly part numbers (blue) are shown. For multimode boot assemblies, replace S (Singlemode) in part number with M (Multimode) and replace BU (Blue) with AQ (Aqua) or BL (Black).

Dimensions are in inches. [Dimensions in brackets are in millimeters.]

WORLDWIDE SUBSIDIARIES AND SALES OFFICES

PANDUIT US/CANADA
Phone: 800.777.3300

PANDUIT EUROPE LTD.
London, UK
cs-emea@panduit.com
Phone: 44.20.8601.7200

PANDUIT SINGAPORE PTE. LTD.
Republic of Singapore
cs-ap@panduit.com
Phone: 65.6305.7575

PANDUIT JAPAN
Tokyo, Japan
cs-japan@panduit.com
Phone: 81.3.6863.6000

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cs-la@panduit.com
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cs-aus@panduit.com
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