# Fiber Optic Patchcords

Fumo Communications

## LL-PT/DX-STFC-50

*— Patchcord duplex ST-FC, 50/125µm —*

**Connector : ST – full metall body, ceramic ferrule ($ZrO_2$); FC – metal body, ceramic ferrule ($ZrO_2$)**

**Cable : Zipcord – 50/125, LSOH sheath**

### STANDARD COMPLIANCE

All components of/and the final product are designed and tested to conform the requirements of IEC 60874-10, CECC 86115-801, CECC BFOC/2.5, Bellcore/Telcordia GR-326, EIA/TIA 604-3A, EIA/TIA 568, ISO/IEC 11801 2nd Ed., EN 50173, JIS C5973 F04, ICEA-596, IEC60793-2-10 A1a or IEC60793-2-10 A1b or ITU-T G.651 (depending on fiber dia-meter), Bellcore/Telcordia GR-409-CORE, IEC 793, IEC 794-1-E1, IEC 794-1-E3 UL1666/901 (when UL-cable used and EIA/TIA455). All components are RoHS compliant and do not and will not contain any restricted hazardous substances as detailed in RoHS 2002/95/EC.



### PERMORMANCE

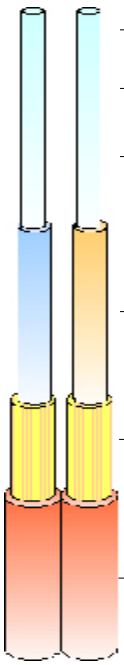
| | |
|---|---|
| Attenuation | : <0,25 dB |
| Return loss | : >35 dB |
| Temperature range | : -5° C to +60° C |
| Color of sheath | : orange |
| | *other colors on request* |
| Fiber version | : semi-tight buffer; |
| | *tight buffered on request* |
| Color of boot | : black & red |
| | *other colors on request* |
| Packaging | : 1 pcs./unit |
| | *other packaging on request* |

### TECHNICAL SPECIFICATION



| ST | TYPE | FC |
|---|---|---|
| $ZrO_2$ (Zirconia/Ceramic) | MATERIAL OF FERRULE | $ZrO_2$ (Zirconia/Ceramic) |
| convex | CONNECTOR SURFACE | convex |
| glue | CONNECTION OF FIBER | glue |
| metal | MATERIAL OF BODY | metal |
| bayonette | CONNECTION AT ADAPTER | screwing |
| >1000 | MATING CYCLES | >1000 |
| 127 / 128 µm | FERRULE DRILLING | 127 / 128 µm |





OPTICAL FIBER
2G50/125µm

CLADDING
diameter: 125 ± 2µm

PRIMARY COATING
color: natural
diameter: 245 ± 10µm

SECONDARY COATING
color: white, orange
diameter: 900µm
semi-tight buffered version

STRENGTH MEMBERS
aramid yarns

COMMON OUTER SHEATH
dimension: 2,8mm *x* 5,6mm
color: orange
material: LSZH compound

### MECHANICAL PERFORMANCE FIBER

| | |
|---|---|
| Weight | : 15,0kg/km |
| Temperature range | : -5°C to +70°C |
| Bending radius | : 40mm |
| Tensile strength | : 250N (long term) - 450N (short term) |
| Crush resistance | : 2000N/dm |

### OPTICAL PERFORMANCE FIBER

| Item | | 50/125 |
|---|---|---|
| CORE DIAMETER | µm | 50 ± 2,5 |
| CLADDING DIAMETER | µm | 125 ± 2 |
| CLADDING NON-CIRCULARITY | % | ≤1,0 |
| CORE/CLADDING CONCENTRICITY | µm | ≤ 6,0 |
| TYP. ATTENUATION @ 850nm | dB/km | 2,7 |
| TYP. ATTENUATION @ 1300nm | dB/km | 0,8 |
| BANDWITH @ 850nm | MHz * km | ≥ 600 |
| BANDWITH @ 1300nm | MHz * km | ≥ 800 |
| LINK LENGTH 1000BaseSX | m | 2 - 600 |
| LINK LENGTH 1000BaseLX | m | 2 - 800 |
| LINK LENGTH 10GBase SR | m | 2 - 82 |
| LINK LENGTH 10GBase X4 | m | 2 - 300 |
| FOR ENTIRE FIBER SPECS REFER TO | | LL-F-006-50 |

*— On request, fibers featuring other than the above staed specifications can be quoted —*



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