

CLD-SC/APC-FRP-ALIGATOR

Fast Connector

SC/APC/UPC Fast Connector

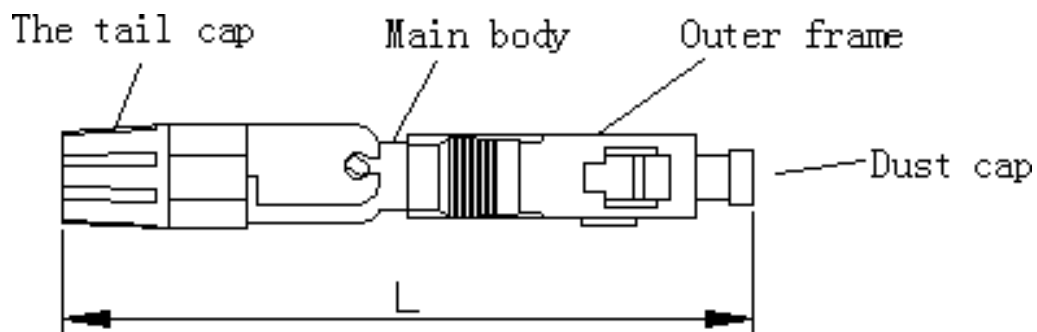


SC/UPC



SC/APC

Product Structure



Product Length: 50mm ≤ L ≤ 60mm (≈ 55mm)

Type: 5501

Optical Characteristics

| Category | Specification |
|--|--|
| Application | Drop cable, Indoor cable |
| Fibre Mode | Single mode or Multi mode |
| Fibre Type | G.652D, G.657A1 |
| Fibre Cable | 3.0*2.0mm rubber-insulated optical cable Ø3.0/Ø2.0 /Ø0.9 insulated optical cable |
| Fiber diameter | 0.125mm |
| Force holds 2 x 3mm cable type at the beginning of the fast connector | ≥ 40 N, loss ≤ 0.4 dB (sample cable length: 22 - 28 cm, test time: 2 minutes) |
| Fibre Lock | Lock holds fiber reliability, bears hang force ≥ 3.8 N, attenuation changes ≤ 0.2 dB |
| Wavelength | 1310 nm, 1490 nm, 1550 nm |
| Operation Time | ~50 seconds (no fibre cut) |
| Insertion Loss | ≤0.35 dB |
| Insertion Loss Typical value | 0.3 dB |
| Return Loss | UPC ≥45, APC ≥55 dB |
| Fastening Strength of Naked Fibre | ≥3 N |
| Tensile Strength | ≥40 N |
| Reusable | ≥10 times |
| Operating Temperature | -40~+85 |
| On-line Tensile Strength (20N) | ΔIL≤0.3 |
| Mechanical Durability (500 times) | ΔIL≤0.3 |
| Drop-off Test (drop-off height 4m, once per direction, totally 3 times) | ΔIL≤0.3 |

Environmental Performance Requirements

| Category | Specification | | | |
|---------------------|------------------------------------|--------------|--------------|---|
| | Condition | IL Variation | RL Variation | Appearance |
| High TEMP | 110°C, 200H | ≤0.5 | ≤5 | No mechanical damage, like deformation, cracking and untight. |
| Low TEMP | -40°C, 200H | ≤0.5 | ≤5 | |
| TEMP Cycling | -40~85°C, 3.5H/Cle, 100C | ≤0.5 | ≤5 | |
| HAST | 110°C, 90%RH, 200H | ≤0.5 | ≤5 | |
| Immersion | 25°C, 200H | ≤0.5 | ≤5 | |
| Salt Mist | 5% NaCl, 6.5<PH<7.5, 35°C, 200H | ≤0.5 | ≤5 | |

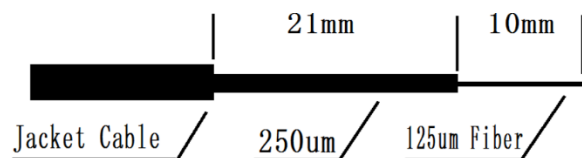
Mechanical Performance Requirements

| Category | Specification | | | |
|------------------|--|--------------|--------------|---|
| | Condition | IL Variation | RL Variation | Appearance |
| Impact | Height: 4m 1 drop each axis. 3 cycles. | ≤0.5 | ≤5 | No mechanical damage, like deformation, cracking and untight. |
| Vibration | Frequency: 10 ~ 50HZ Sweep: 45 times/min Amplitude: 0.75mm Duration: 30min each axial | ≤0.5 | ≤5 | |
| Torsional | Pull: 15N The distance between Loading location and fast connector: L = 22-28cm Rate: 10times/min. Times: 200 | ≤0.5 | ≤5 | |
| Tensile | Pull: 50N The distance between Loading location and fast Connector: L = 22-28cm Duration: 1min | ≤0.5 | ≤5 | |

Adapter (supports strip and cut fibre)



1 adapter / 50 fast connectors.



Cleave fibre.