

# Simplex Patch Cord SC/APC-SC/APC 2 mm

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by epcom®



SC/APC-SC/APC

## Fiber Parameters

| Category                   | Description                                                    | Especifications              |             |
|----------------------------|----------------------------------------------------------------|------------------------------|-------------|
|                            |                                                                | Before Cable                 | After Cable |
| Optical Specifications     | Attenuation @1310 nm                                           | ≤0.35 dB/km                  | ≤0.40 dB/km |
|                            | Attenuation @1550 nm                                           | ≤0.21 dB/km                  | ≤0.30 dB/km |
|                            | Fiber irregularities point and whole length @1310 nm & 1550 nm | ≤0.05 dB/km                  |             |
|                            | Attenuation inhomogeneity @1310 nm & 1550 nm                   | ≤0.05 dB/km                  |             |
|                            | Dispersion coefficient                                         | @1310 nm ≤3.5ps/nm·km        |             |
|                            | Zero dispersion wavelength                                     | @1550 nm ≤18ps/ nm·km        |             |
|                            |                                                                | 1300~1322 nm                 |             |
|                            | Zero dispersion slope                                          | ≤0.091ps/nm <sup>2</sup> ·km |             |
|                            | Cable cutoff wavelength (λ <sub>cc</sub> )                     | ≤1260 nm                     |             |
|                            | Macro bending loss                                             |                              |             |
| Dimensional Specifications | (1 turn; Φ16 mm) @1550 nm                                      | ≤0.05 dB                     |             |
|                            | (100 turns; Φ25 mm) @1310 nm                                   | ≤0.05 dB                     |             |
|                            | (100 turns; Φ25 mm) @1550 nm                                   | ≤0.05 dB                     |             |
| Mechanical Specifications  | (100 turns; Φ30 mm) @1625 nm                                   | ≤0.05 dB                     |             |
|                            | Mode field diameter @1310 nm                                   | 8.8±0.4μm                    |             |
|                            | Cladding diameter                                              | 125±1.0μm                    |             |
|                            | Cladding non circularity                                       | ≤1.0%                        |             |
|                            | Core / clad concentricity error                                | ≤0.6μm                       |             |
|                            | Proof stress                                                   | ≥1.05%                       |             |
|                            | Fatigue resistance parameter (Nd)                              | ≥22                          |             |
|                            | Peak coating strip force                                       | 1.3~8.9N                     |             |

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| Model            | Features                                                      |
|------------------|---------------------------------------------------------------|
| LP-FO-SCA-SCA-01 | Simplex Patch Cord 2.0 mm Single Mode SC/APC-SC/APC, PVC, 1 m |
| LP-FO-SCA-SCA-02 | Simplex Patch Cord 2.0 mm Single Mode SC/APC-SC/APC, PVC, 2 m |
| LP-FO-SCA-SCA-03 | Simplex Patch Cord 2.0 mm Single Mode SC/APC-SC/APC, PVC, 3 m |

## Note:

1. Fiber cable according to IEC 60794-1
2. End surface test is according to WI-QJ-021
3. Test standard:  $IL \leq 0.30\text{dB}$ ,  $RL \geq 60\text{dB}$
4. Operating temperature (°C) -40 ~ +75
5. Operating wavelength (nm) 1310/1550
6. ROHS compliant

## Regulatory Compliance / Certificate

|               |                                                                                |
|---------------|--------------------------------------------------------------------------------|
| ISO 9001:2008 | Designed, manufactured and/or distributed under this quality management system |
| IEC 60794-1   | Optical fiber cables-generic specification - Mechanical tests methods          |