





PACKING DRAW

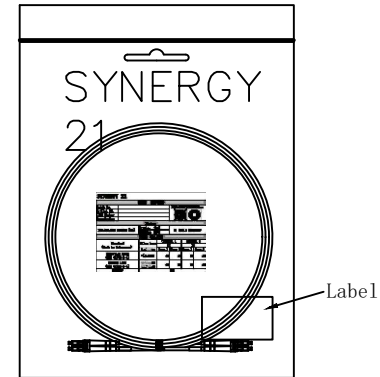


Chart:

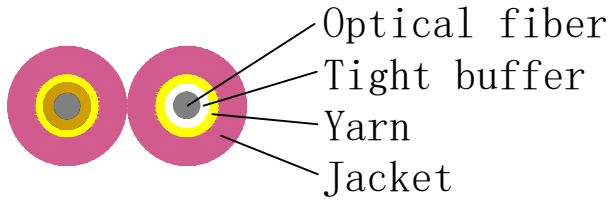
| NO. | ITEM NO. | LENGTH | COLOR        | EAN Nummer    | PACKING          |
|-----|----------|--------|--------------|---------------|------------------|
| 1   | S216794  | 0.25m  | Erika violet | 4038816136053 | SYNERGY 21 BAG A |
| 2   | S216762  | 0.5m   | Erika violet | 4038816069061 | SYNERGY 21 BAG A |
| 3   | S216763  | 1m     | Erika violet | 4038816147639 | SYNERGY 21 BAG A |
| 4   | S216764  | 1.5m   | Erika violet | 4038816069078 | SYNERGY 21 BAG A |
| 5   | S216765  | 2m     | Erika violet | 4038816069092 | SYNERGY 21 BAG A |
| 6   | S216766  | 3m     | Erika violet | 4038816069139 | SYNERGY 21 BAG A |
| 7   | S216767  | 5      | Erika violet | 4038816069153 | SYNERGY 21 BAG B |
| 8   | S216768  | 7.5m   | Erika violet | 4038816069160 | SYNERGY 21 BAG B |
| 9   | S216769  | 10m    | Erika violet | 4038816069184 | SYNERGY 21 BAG B |
| 10  | S216770  | 15m    | Erika violet | 4038816069191 | SYNERGY 21 BAG B |
| 11  | S216771  | 20m    | Erika violet | 4038816069207 | SYNERGY 21 BAG B |

PACKING:SYNERGY 21 PE BAG+LABEL

| SYNERGY 21                        |                               |   |    |           |    |
|-----------------------------------|-------------------------------|---|----|-----------|----|
| TEST REPORT                       |                               |   |    |           |    |
| Batch No.                         |                               | Attention: Please check the test results!<br>Achtung: Bitte überprüfen Sie den Produkttest! |    |           |    |
| Artikel NO.                       |                               |   |    |           |    |
| ITEM Number                       |                               |   |    |           |    |
| Description                       |                               |   |    |           |    |
| Notes                             |                               |   |    |           |    |
| Min. bending radius (mm)          | Static: 10*D<br>Dynamic: 20*D | D: Cable diameter   |    |           |    |
| TEST VALUES                       |                               |   |    |           |    |
| Standard<br>(Each to Reference)   | Allow Loss<br>λ = nm          | CHANNEL 1   |    | CHANNEL 2 |    |
|                                   |                               | LC  | LC | LC        | LC |
| Insertion Loss<br>(IEC 61300-3-4) | < 0.30dB                      | dB  | dB | dB        | dB |
| Return Loss<br>(IEC 61300-3-6)    | dB                            | dB  | dB | dB        | dB |
| <b>RESULT</b>                     |                               | <b>OK</b>   |    |           |    |

| SYNERGY 21                    |     |  |  |        |                     |      |            |               |            |  |
|-------------------------------|-----|--|--|--------|---------------------|------|------------|---------------|------------|--|
| CUSTOMER                      |     |  |  |        |                     |      | ITEM NO.   | See the chart |            |  |
| PRODUCT NAME                  |     | LC/UPC-LC/APC OM4 50/125um Duplex<br>LSZH Patch cord |  |        | Manufacture country |      | CHINA      | UNIT          | mm         |  |
| DRAWNBY                       |     | CHECKBY  |  | APPOBY |                     | DATE |            |               |            |  |
| BY                            | CHK | NEW  |  |        | 2024-08-21          | AO   | SYNERGY 21 |               | 2024-08-21 |  |
| REVISION RECORD MODIFICATIONS |     |  |  |        | DATE                | REV. |            |               |            |  |

### Cable cross-section



### OM4 Characteristic of Optical Fiber

| Item                                  | Unit   | Specification |                  |
|---------------------------------------|--------|---------------|------------------|
|                                       |        | BI-OM4        |                  |
| Core diameter                         | μm     | 50±2.5        |                  |
| Cladding diameter                     | μm     | 124.8± 0.7    |                  |
| Cladding non-circularity              | %      | ≤1.0          |                  |
| Core/Clad concentricity error         | μm     | ≤1.5          |                  |
| Coating diameter                      | μm     | 245 ± 10      |                  |
| Coating/cladding concentricity error  | μm     | ≤12           |                  |
| OFL Bandwidth                         | 850nm  | MHz·km        | ≥ 3500           |
|                                       | 1300nm | MHz·km        | ≥ 500            |
| EMB Bandwidth                         | 850nm  | MHz·km        | ≥ 4700           |
| Attenuation Coefficient               | 850nm  | dB/km         | ≤ 2.4            |
|                                       | 1300nm | dB/km         | ≤ 0.6            |
| Macro-bend loss (100turn,75mm radius) | 850nm  | dB            | ≤0.5             |
|                                       | 1300nm | dB            | ≤0.5             |
| Proof stress level                    |        | kpsi          | 100              |
| Effective group index of refraction   | 850nm  | /             | 1.483            |
|                                       | 1300nm | /             | 1.478            |
| Zero dispersion wavelength λ 0        |        | nm            | 1295 ≤ λ 0 ≤1340 |

Other parameters meet standard IEC 60793-2-10

### Cable structure and parameter

| Item                   | Contents   | Unit    | Value  |                     |
|------------------------|------------|---------|--|---------------------|
| Tight buffer fiber     | Diameter   | mm      | 0.9±0.05   |                     |
|                        | Material   | /       | LSZH   |                     |
| Filler                 | Material   | /       | Yarn   |                     |
|                        | Diameter   | mm      | 2.0(±0.1)×4.1(±0.2)  | 3.0(±0.1)×6.1(±0.2) |
| Outer jacket           | Material   | /       | LSZH   |                     |
|                        | Color      | /       | SM: Yellow<br>OM1/OM2: Orange<br>OM3:Aqua<br>OM4:Violet                          |                     |
| Tensile performance    | Short term | N       | Cable OD:1.2(±0.1)mm; 1.6(±0.1)mm  | 30                  |
|                        |            |         | Cable OD:3.0(±0.1)*6.0(±0.2)mm;<br>2.0(±0.1)*4.0(±0.2)mm                         | 40                  |
|                        | Long term  | N       | Cable OD:1.2(±0.1)mm   | 20                  |
|                        |            |         | Cable OD:1.6(±0.1)mm<br>Cable OD:3.0(±0.1)*6.0(±0.2)mm;<br>2.0(±0.1)*4.0(±0.2)mm | 40                  |
| Crush                  | Short term | N/100mm | Cable OD:1.2(±0.1)mm   | 200                 |
|                        |            |         | Cable OD:1.6(±0.1)mm;3.0(±0.1)*6.0(±0.2)mm;<br>2.0(±0.1)*4.0(±0.2)mm             | 500                 |
| Crush                  | Long term  | N/100mm | Cable OD:1.2(±0.1)mm;1.6(±0.1)mm   | 100                 |
|                        |            |         | Cable OD:3.0(±0.1)*6.0(±0.2)mm;<br>2.0(±0.1)*4.0(±0.2)mm                         | 200                 |
| Cable attenuation      |            | dB/km   | SM: ≤ 0.4 at 1310nm, ≤ 0.3 at 1550nm<br>MM: ≤ 1.0 at 1300nm, ≤ 3.0 at 850nm      |                     |
| Cable weight (Approx.) |            | kg/km   | 7.3  | 13.5                |

### SYNERGY 21

|    |     |                               |            |     |              |                   |                     |               |      |    |
|----|-----|-------------------------------|------------|-----|--------------|-------------------|---------------------|---------------|------|----|
|    |     |                               |            |     | CUSTOMER     |                   | ITEM NO.            | see the chart |      |    |
|    |     |                               |            |     | PRODUCT NAME | Fiber optic cable | Manufacture country | CHINA         | UNIT | mm |
|    |     | NEW                           | 2024-08-21 | AO  | DRAWNBY      | CHECKBY           | APPOBY              | DATE          |      |    |
| BY | CHK | REVISION RECORD MODIFICATIONS | DATE       | REV | SYNERGY 21   | SYNERGY 21        | SYNERGY 21          | 2024-08-21    |      |    |