

**MATERIAL LIST:**

|     |   |       |        |
|-----|---|-------|--------|
| ⑨   | S/N barcode label   | 1pcs  |        |
| ⑧   | LC Dust Cap white   | 16pcs |        |
| ⑦   | Fanout Splitter with heat shrink tube                                 | 2pcs  |        |
| ⑥   | Fanout cable OD 2.0mm Erika violet                                    | 16pcs |        |
| ⑤   | Ring 1 2 3 4 5 6 7 8  | 16pcs |        |
| ④   | LC White 2.0 Boot   | 16pcs |        |
| ③   | LC MM Simplex Connector With Clip Erika violet                        | 16pcs |        |
| ②   | LC/UPC MM Ferrule   | 16pcs |        |
| ①   | Universal Fiber Optical Cable 8C OM4 50/125 LSZH 6.0mm Black, CPR Dca | L     |        |
| NO. |   | QT' Y | REMARK |

Note:  
 1. ROHS 3.0 and REACH Compliant  
 2. Test:

|  |          |               |
|--|----------|---------------|
| Test Grade Designation:Each to Reference |          |               |
| Grade IL/RL                              | Standard |               |
| Insertion Loss (IL)                      | ≤0.3dB   | IEC 61300-3-4 |
| Return Loss (RL)                         | ≥30dB    | IEC 61300-3-6 |
| Test Wavelength                          | 850nm    | Multi-mode    |
| End face inspection                      | ×400     |               |

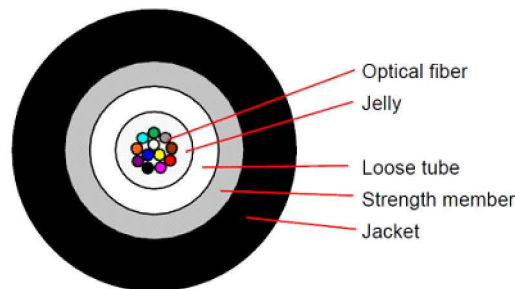
3. Packing:1pc/PE BAG+serial number  
 sticker+test report+manual+CPR CE label

| ITEM NO. | EAN           | Artikel NO. | Length(m) | Package    |
|----------|---------------|-------------|-----------|------------|
| S217070  | 4038816116192 | 207871      | 10        | 1pc/PE bag |
| S217071  | 4038816116215 | 207872      | 20        | 1pc/PE bag |
| S217072  | 4038816116222 | 207873      | 30        | 1pc/PE bag |
| S217073  | 4038816116239 | 207874      | 40        | 1pc/PE bag |
| S217074  | 4038816116307 | 207875      | 50        | 1pc/Drum   |
| S217075  | 4038816116406 | 207876      | 60        | 1pc/Drum   |
| S217076  | 4038816116420 | 207877      | 70        | 1pc/Drum   |
| S217077  | 4038816116468 | 207878      | 80        | 1pc/Drum   |
| S217078  | 4038816116482 | 207879      | 90        | 1pc/Drum   |
| S217079  | 4038816207893 | 207880      | 100       | 1pc/Drum   |
| S217080  | 4038816116505 | 207881      | 110       | 1pc/Drum   |
| S217081  | 4038816116512 | 207882      | 120       | 1pc/Drum   |
| S217082  | 4038816116529 | 207883      | 130       | 1pc/Drum   |
| S217083  | 4038816116536 | 207884      | 140       | 1pc/Drum   |
| S217084  | 4038816116543 | 207885      | 150       | 1pc/Drum   |
| S217085  | 4038816116550 | 207886      | 160       | 1pc/Drum   |
| S217086  | 4038816116581 | 207887      | 170       | 1pc/Drum   |
| S217087  | 4038816116604 | 207888      | 180       | 1pc/Drum   |
| S217088  | 4038816116628 | 207889      | 190       | 1pc/Drum   |
| S217089  | 4038816207890 | 207890      | 200       | 1pc/Drum   |

|              |           |  |          |           |                     |           |       |      |    |
|--------------|-----------|--|----------|-----------|---------------------|-----------|-------|------|----|
| SYNERGY21    |           |  |          |           |                     |           |       |      |    |
| CUSTOMER     |           |  | ITEM NO. |           |                     |           |       |      |    |
| PRODUCT NAME |           | Universal LC/UPC-LC/UPC OM4 8C<br>6.0mm, CPR Dca |          |           | manufacture country |           | CHINA | UNIT | MM |
| DRAWNBY      |           | CHECKBY  |          | APPOBY    |                     | DATE      |       |      |    |
| REV.         | SYNERGY21 | SYNERGY21  |          | SYNERGY21 |                     | 2021-8-30 |       |      |    |

|     |     |                               |           |      |
|-----|-----|-------------------------------|-----------|------|
| Fan | Fan | Add size                      | 2023-9-20 | A1   |
| BY  | CHK | REVISION RECORD MODIFICATIONS | 2021-8-30 | AO   |
|     |     |                               | DATE      | REV. |

Cable cross-section:



Cable structure and parameter:

| Item                   | Contents            | Unit       | Value                           |   |    |
|------------------------|---------------------|------------|---------------------------------|---|----|
| Optical Fiber          | /                   | /          | 4                               | 8 | 12 |
| Loose tube             | Diameter            | mm         | 3.0±0.1                         |   |    |
|                        | Material            | /          | PBT                             |   |    |
|                        | Filler              | /          | Jelly                           |   |    |
| Strength member        | Material            | /          | Water blocking glass yarn       |   |    |
|                        | Diameter            | mm         | 6.0±0.2                         |   |    |
| Outer jacket           | Material            | /          | LSZH                            |   |    |
|                        | Color               | /          | Black                           |   |    |
|                        | Tensile performance | Short term | N                               |   |    |
| Crush                  | Short term          | N/100mm    | 1500                            |   |    |
| Cable attenuation      |                     | dB/km      | ≅ 1.0 at 1300nm, ≅ 3.0 at 850nm |   |    |
| Cable weight (Approx.) |                     | kg/km      | 40.5                            |   |    |

1. Universal indoor and outdoor cable

- UV resistant IEC 60794-1-22-F14/ISO 4892-3
- Longitudinally waterproof IEC 60794-1-22-F5B, Time:24h H:1m L:<3m
- Anti-rat bite, Yes
- Cable :IEC 60793-2, IEC 11801
- Cable Main mechanical & environmental performance test:IEC 60794-1-2
- LC Connector:IEC 61754-20
- Fiber optic performance standard:IEC 61753-1, IEC 61753-122-2, IEC 61753-222-2
- Halogen free:IEC 60754-1
- Smoke density:IEC 61034-2
- Flame retardant:EN 60332-1-2, EN 50399 of CPR Dca

2. Outer jacket:LSZH, Black

3. Tensile short term:800N

4. Crush short term:1500 N/100mm

5. Min. bending radius

Static: 10 x cable diameter

Dynamic: 20 x cable diameter

6. Application temperature range

Operation: -40°C ~ +70°C

Installation: -20°C ~ +55°C

Storage/transportation: -40°C ~ +70°C

OM4 Characteristic of Optical Fiber:

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

|    |     |                               |           |      |              |  |                     |               |
|----|-----|-------------------------------|-----------|------|--------------|--|---------------------|---------------|
|    |     |                               |           |      | CUSTOMER     | SYNERGY21                                    | ITEM NO.            |               |
|    |     |                               |           |      | PRODUCT NAME | Universal LC/UPC-LC/UPC OM4 8C 6.0mm,CPR Dca | manufacture country | CHINA UNIT MM |
|    |     | NEW                           | 2021-8-30 | A    | DRAWNBY      | CHECKBY                                      | APPOBY              | DATE          |
| BY | CHK | REVISION RECORD MODIFICATIONS | DATE      | REV. | SYNERGY21    | SYNERGY21                                    | SYNERGY21           | 2021-8-30     |

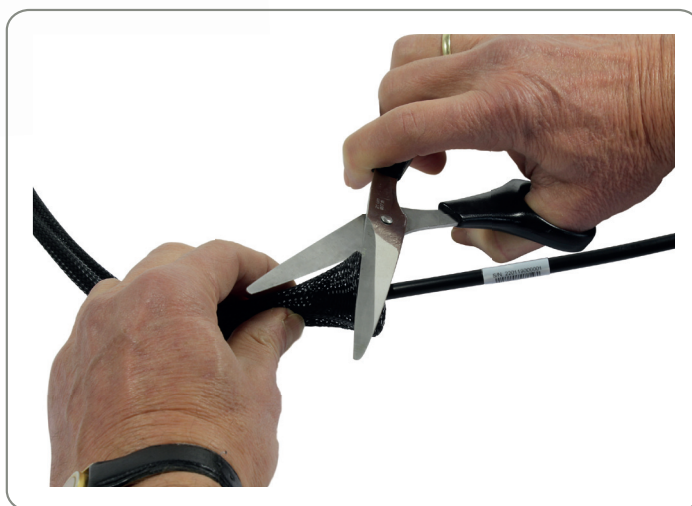
# Kurzanleitung

## Demontage des Gewebeschauchs

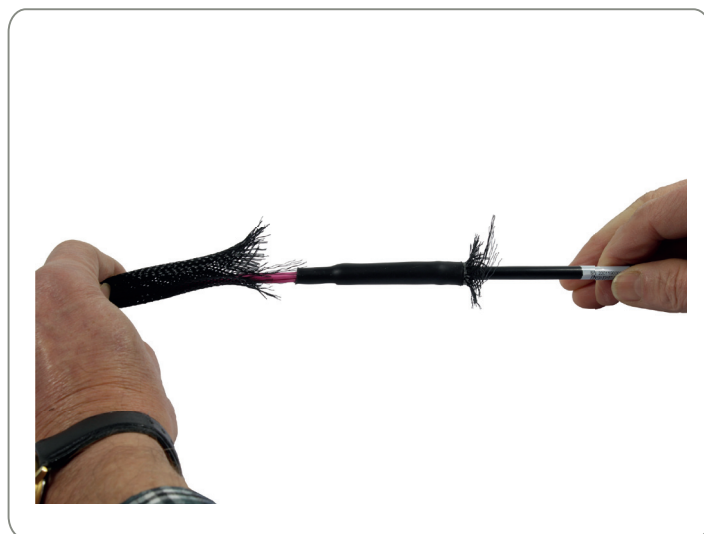
# SYNERGY 21



**1** Leichtes zurückschieben des Gewebeschauches



**2** Abschneiden des Gewebeschauchs  
**Wichtig:** Keine LWL-Faser beschädigen



**3** Abziehen der Gewebeschauch-Einziehhilfe

