

- Note:
1. ROHS 3.0 and REACH Compliant
  2. Test: 100%

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

**MATERIAL LIST:**

Attention: drilling hole must do ≥ 20mm

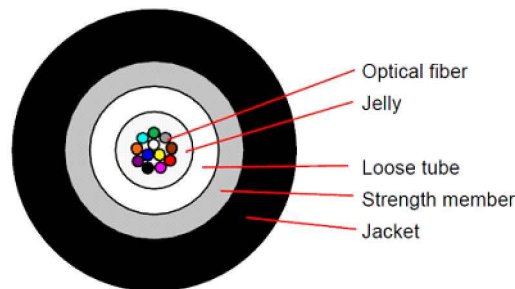
NO.	DESCRIPTION	QTY	REMARK
⑨	S/N barcode label	1pcs	
⑧	LC Dust Cap white	8pcs	
⑦	Fanout Splitter with heat shrink tube	2pcs	
⑥	Fanout cable OD 2.0mm Erika violet	8pcs	
⑤	Ring 1 2 3 4	8pcs	
④	LC White 2.0 Boot	8pcs	
③	LC MM Simplex Connector With Clip Erika violet	8pcs	
②	LC/UPC MM Ferrule	8pcs	
①	Universal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

ITEM NO.	EAN	Artikel NO.	Length(m)	Package
S217050	4068816207852	207851	10	1pc/PE bag
S217051	4068816115850	207852	20	1pc/PE bag
S217052	4068816113857	207853	30	1pc/PE bag
S217053	4068816113854	207854	40	1pc/PE bag
S217054	4068816115904	207855	50	1pc/Drum
S217055	4068816115911	207856	60	1pc/Drum
S217056	4068816115928	207857	70	1pc/Drum
S217057	4068816115942	207858	80	1pc/Drum
S217058	4068816115959	207859	90	1pc/Drum
S217059	4068816207869	207860	100	1pc/Drum
S217060	4068816115973	207861	110	1pc/Drum
S217061	4068816115980	207862	120	1pc/Drum
S217062	4068816115997	207863	130	1pc/Drum
S217063	4068816116024	207864	140	1pc/Drum
S217064	4068816116079	207865	150	1pc/Drum
S217065	4068816116096	207866	160	1pc/Drum
S217066	4068816116109	207867	170	1pc/Drum
S217067	4068816116126	207868	180	1pc/Drum
S217068	4068816116161	207869	190	1pc/Drum
S217069	4068816207876	207870	200	1pc/Drum

SYNERGY21									
CUSTOMER		ITEM NO.							
PRODUCT NAME	UNIVERSAL LC/UPC-LC/UPC OM4 4C 6.0mm, CPR Dca	MANUFACTURE COUNTRY	CHINA	UNIT	MM	DATE	DATE	DATE	DATE
DRAWNBY	CHECKBY	APPOBY							
SYNERGY21	SYNERGY21	SYNERGY21							

Fan	Fan	Add size	2023-9-20	A1
BY	CHK	REVISION RECORD MODIFICATIONS	DATE	REV.
		NEW	2021-8-30	A0

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	800		
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>Ⓢ</sup>
Core diameter <sup>Ⓢ</sup>	μm <sup>Ⓢ</sup>	50±2.5 <sup>Ⓢ</sup>
Cladding diameter <sup>Ⓢ</sup>	μm <sup>Ⓢ</sup>	124.8± 0.7 <sup>Ⓢ</sup>
Cladding non-circularity <sup>Ⓢ</sup>	% <sup>Ⓢ</sup>	≤1.0 <sup>Ⓢ</sup>
Core/Clad concentricity error <sup>Ⓢ</sup>	μm <sup>Ⓢ</sup>	≤1.5 <sup>Ⓢ</sup>
Coating diameter <sup>Ⓢ</sup>	μm <sup>Ⓢ</sup>	245 ± 10 <sup>Ⓢ</sup>
Coating/cladding concentricity error <sup>Ⓢ</sup>	μm <sup>Ⓢ</sup>	≤12 <sup>Ⓢ</sup>
OFL Bandwidth <sup>Ⓢ</sup>	850nm <sup>Ⓢ</sup>	MHz.km <sup>Ⓢ</sup> ≥ 3500 <sup>Ⓢ</sup>
	1300nm <sup>Ⓢ</sup>	MHz.km <sup>Ⓢ</sup> ≥ 500 <sup>Ⓢ</sup>
EMB Bandwidth <sup>Ⓢ</sup>	850nm <sup>Ⓢ</sup>	MHz.km <sup>Ⓢ</sup> ≥ 4700 <sup>Ⓢ</sup>
	1300nm <sup>Ⓢ</sup>	
Attenuation Coefficient <sup>Ⓢ</sup>	850nm <sup>Ⓢ</sup>	dB/km <sup>Ⓢ</sup> ≤2.4 <sup>Ⓢ</sup>
	1300nm <sup>Ⓢ</sup>	dB/km <sup>Ⓢ</sup> ≤0.6 <sup>Ⓢ</sup>
Macro-bend loss (100turn, 75mm radius) <sup>Ⓢ</sup>	850nm <sup>Ⓢ</sup>	dB <sup>Ⓢ</sup> ≤0.5 <sup>Ⓢ</sup>
	1300nm <sup>Ⓢ</sup>	dB <sup>Ⓢ</sup> ≤0.5 <sup>Ⓢ</sup>
Proof stress level <sup>Ⓢ</sup>	kpsi <sup>Ⓢ</sup>	100 <sup>Ⓢ</sup>
Effective group index of refraction <sup>Ⓢ</sup>	850nm <sup>Ⓢ</sup>	/ <sup>Ⓢ</sup> 1.483 <sup>Ⓢ</sup>
	1300nm <sup>Ⓢ</sup>	/ <sup>Ⓢ</sup> 1.478 <sup>Ⓢ</sup>
Zero dispersion wavelength λ <sub>0</sub> <sup>Ⓢ</sup>	nm <sup>Ⓢ</sup>	1295 ≅ λ <sub>0</sub> ≅ 1340 <sup>Ⓢ</sup>

				CUSTOMER		SYNERGY21		ITEM NO.			
				PRODUCT NAME		Universal LC/UPC-LC/UPC OM4 4C 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

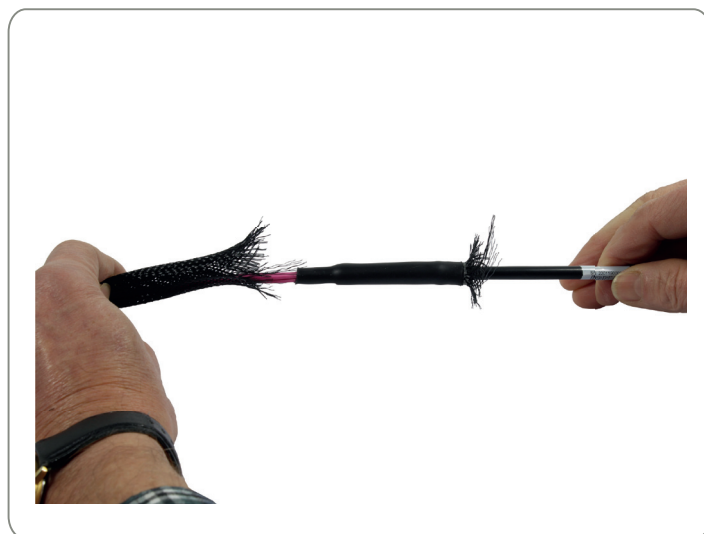
# SYNERGY 21



**1** Leichtes zurückschieben des Gewebeschauches



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



**3** Abziehen der Gewebeschauch-Einziehhilfe

