

Note:
 1.RoHS 3.0 & Reach Compliant
 2.Text:

Test Grade Designation:Each to Reference		
Grade IL/RL	IEC61753 Grade B	
Insertion Loss (IL)	97%≤0.25dB mean≤0.12dB	IEC 61300-3-4
Return Loss (RL)	≥50dB	IEC 61300-3-6
Test Wavelength	1310nm	Single-Mode
End face inspection	×400	

MATERIAL LIST:

⑫	SC Duplex Connector Blue	2pcs	
⑪	SC Clip Blue	1pcs	
⑩	SC Dust Cap	2pcs	
⑨	SC/UPC SM Ferrule	2pcs	
⑧	Ring 1 2	4pcs	
⑦	Black Heat Shrink Tube	2pcs	
⑥	LC Clip Blue	1pcs	
⑤	LC Dust Cap White	2pcs	
④	LC Duplex Connector Blue	2pcs	
③	LC Flex-Angle boot ID: 2.0mm	4pcs	
②	LC/UPC SM Ferrule 126-128um	2pcs	
①	Fiber Optical Cable Duplex ϕ 2.0mm OS2(G657.A2) 9/125um Yellow LSZH	L+0.1m	
NO.	SPECIFICATION STANDARD	QT'Y	REMARK

3. Operating Temperature: -40° C ~ +85° C
 4. Storage Temperature: -20° C ~ +70° C
 5. Min. bending radius: 7.5mm

SYNERGY 21									
		Update test data	2022-4-06	A2	CUSTOMER	ITEM NO.			
		change "ROSH 2.0" to "ROSH 3.0"	2022-02-25	A1	PRODUCT NAME	SC/UPC-LC/UPC DX OS2 2.0mm, Flex-Angle boot	Manufacture country	CHINA	UNIT MM
		NEW	2021-09-08	A0	DRAWNBY	CHECKBY	APPOBY	DATE	
BY	CHK	REVISION RECORD MODIFICATIONS	DATE	REV.	SYNERGY 21	SYNERGY 21	SYNERGY 21	2021-09-08	

TEST REPORT					
Batch No.					Attention: Please clean the fiber surfaces! Achtung: Bitte reinigen Sie Steckstrirrfächer!
Artikel NO.					
ITEM Number					
Description					
Notes					
Min. bending radius (mm)	Static: 10*D		D: Cable diameter		
	Dynamic: 20*D				
TEST VALUES					
Standard (Each to Reference)	Allow Loss $\lambda=1310\text{nm}$	CHANNEL 1		CHANNEL 2	
		Conn. 1	Conn. 2	Conn. 1	Conn. 2
Insertion Loss (IEC 61300-3-4)	$\leq 0.30\text{dB}$	dB	dB	dB	dB
Return Loss (IEC 61300-3-6)	UPC $\geq 50\text{dB}$ APC $\geq 60\text{dB}$	dB	dB	dB	dB
RESULT		OK			

PACKING DRAW

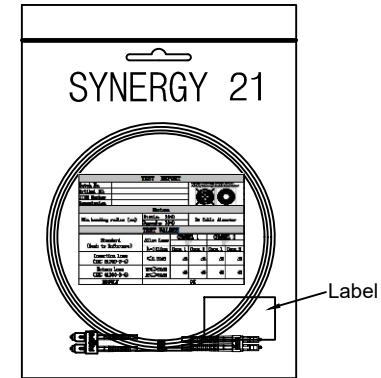
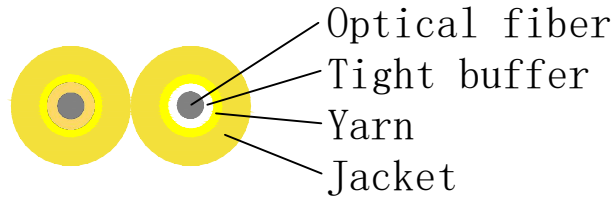


Chart:

Item No.	Package	EAN Code	LENGTH (MM)
S217030	SinglePack: 1pc/SYNERGY 21 A bag/test report+label; SubPack: no; Carton +labelx2;	4038816207234	500
S217031	SinglePack: 1pc/SYNERGY 21 A bag/test report+label; SubPack: no; Carton +labelx2;	4038816113955	1000
S217032	SinglePack: 1pc/SYNERGY 21 A bag/test report+label; SubPack: no; Carton +labelx2;	4038816114020	1500
S217033	SinglePack: 1pc/SYNERGY 21 A bag/test report+label; SubPack: no; Carton +labelx2;	4038816114051	2000
S217034	SinglePack: 1pc/SYNERGY 21 A bag/test report+label; SubPack: no; Carton +labelx2;	4038816114068	3000
S217035	SinglePack: 1pc/SYNERGY 21 B bag/test report+label; SubPack: no; Carton +labelx2;	4038816114075	5000
S217036	SinglePack: 1pc/SYNERGY 21 B bag/test report+label; SubPack: no; Carton +labelx2;	4038816114082	7500
S217037	SinglePack: 1pc/SYNERGY 21 A bag/test report+label; SubPack: no; Carton +labelx2;	4038816207241	10000

SYNERGY 21									
					CUSTOMER		ITEM NO.	see the chart	
					PRODUCT NAME	SC/UPC-LC/UPC DX OS2 2.0mm, Flex-Angle boot	Manufacture country	CHINA	UNIT MM
		NEW	2021-11-08	A	DRAWNBY	CHECKBY	APPOBY	DATE	
BY	CHK	REVISION RECORD MODIFICATIONS	DATE	REV	SYNERGY 21	SYNERGY 21	SYNERGY 21	2021-11-08	

Cable cross-section



G657A2 Characteristic of Optical Fiber

Item	Unit	Specification		
		G. 657A2		
Mode field diameter	1310nm	μm	8.6 ± 0.4	
	1550nm	μm	9.6 ± 0.5	
Cladding diameter		μm	124.3~125.0	
Cladding non-circularity		%	≤1.0	
Core concentricity error		μm	≤0.5	
Coating diameter		μm	245 ± 5	
Coating/cladding concentricity error		μm	≤10	
Cable cut-off wavelength		nm	≤ 1260	
Attenuation Coefficient	1310nm	dB/km	≤0.35	
	1550nm	dB/km	≤0.21	
Macro-bend loss (1 turn, 7.5mm radius)	1550nm	dB	≤0.5	
	1625nm	dB	≤1.0	
Proof stress level		kpsi	100	
PMD	Maximum Individual Fiber		ps/√km	0.2
	Link Design Value (M=20, Q=0.01%)		ps/√km	0.1
	Typical Value		ps/√km	0.04
Effective group index of refraction	1310nm		1.4672	
	1550nm		1.4683	
Zero dispersion wavelength		nm	1300~1322	
Zero dispersion slope		ps/(nm ² · km)	≤0.091	
Zero dispersion slope typical value		ps/(nm ² · km)	0.086	

Other parameters meet standard ITU-T G.657

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 OM1/OM2: Orange OM3:Aqua OM4:Violet	
	Short term	N	Cable OD:1.2(±0.1)mm; 1.6(±0.1)mm	30
Tensile performance	Long term	N	Cable OD:3.0(±0.1)*6.0(±0.2)mm; 2.0(±0.1)*4.0(±0.2)mm	40
			Cable OD:1.2(±0.1)mm	20
	Short term	N/100mm	Cable OD:1.6(±0.1)mm	30
			Cable OD:3.0(±0.1)*6.0(±0.2)mm; 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; 2.0(±0.1)*4.0(±0.2)mm	500
	Long term	N/100mm	Cable OD:1.2(±0.1)mm;1.6(±0.1)mm	100
Cable attenuation	dB/km		SM: ≅ 0.4 at 1310nm, ≅ 0.3 at 1550nm	
			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	2021-11-08	A	DRAWNBY	CHECKBY	APPOBY	DATE		
BY	CHK	REVISION RECORD MODIFICATIONS	DATE	REV	SYNERGY 21	SYNERGY 21	SYNERGY 21	2021-11-08		