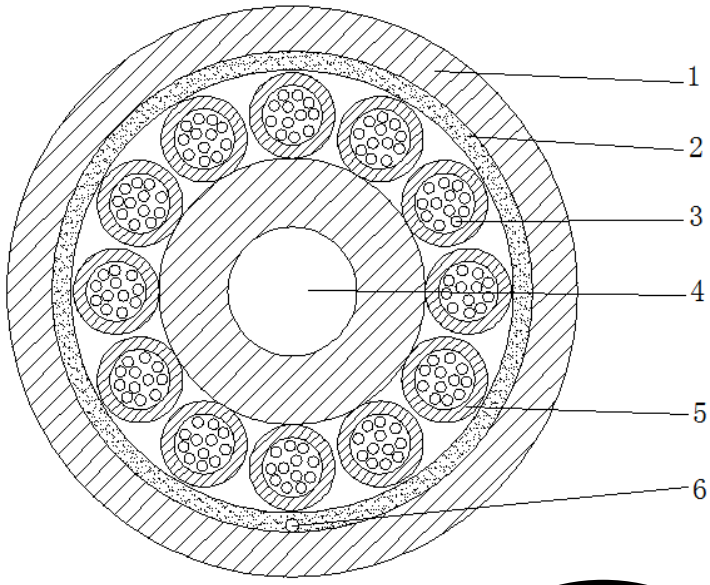
SIN YU

Mini Breakout Optical Cable

Cable Structure



Mark:
1.Out jacket
2.Aramid yarn
3.Fiber
4.FRP
5.Unit jacket
6.Ripcord

12C-2MB-BSM

48C-4MB-BSM

48C-6MB-BSM

96C-12MB-BSM

SINYU Technology www.sinyu.com.tw
NO.115, Tanding, Xinshi Dist., Tainan City 74449, Taiwan (R.O.C.)
E-mail: sinyu@ms17.hinet.net , sales@sinyu.com.tw
Tel: 886-6-5014093 Fax: 886-6-5011442

SIN YU

Cable Technical Parameters

Model										
Fiber Count		12	24	24	48	48	48	48	96	96	144
Fiber per tube		2	2	4	12	8	6	4	12	8	12
Tube count		6	12	6	4	6	8	12	8	12	12
Unit tube	OD(mm)	1.0 ± 0.1	1.0 ± 0.1	1.1± 0.1	1.6 ± 0.1	1.4± 0.1	1.2± 0.1	1.1± 0.1	1.6± 0.1	1.4± 0.1	1.6± 0.1
	Material	LSZH									
Cable	OD(mm)	5.5± 0.5	7.4± 0.5	5.7± 0.5	6.4± 0.5	6.6± 0.5	6.7± 0.5	7.7± 0.5	7.9± 0.5	9.0± 0.5	10.5± 0.5
	Material	LSZH									
Strength member 1		Aramid yarn									
Strength member 2	Material	FRP	FRP	FRP	FRP	FRP	FRP	FRP	FRP	FRP	FRP
	OD(mm)	1.0	1.0	1.2	1.0	1.6	1.6	1.6	1.6	1.6	1.6
	LSZH coating FRP(mm)	---	3.0	---	---	---	2.1	3.3	2.7	4.1	4.7
Max.tensile Strength(N)	Short-term	660	660	660	660	1350	1350	1350	1350	1350	1350
	Long-term	200	200	200	200	400	400	400	400	400	400
Min.Bending Radius(mm)	Dynamic	20D	20D	20D	20D	20D	20D	20D	20D	20D	20D
	Static	10D	10D	10D	10D	10D	10D	10D	10D	10D	10D
Max.Crush Resistance(N/100mm)	Short-term	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
	Long-term	300	300	300	300	300	300	300	300	300	300
Cable Attenuation		1310nm					≤0.4dB/km				
		1550nm					≤0.3dB/km				

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Design your cable

Environmental Protection		RoHS COMPLIANT
Temperature range	Storage or transportation	-40~70℃
	Operation	-20~60℃
	Installation	-20~60℃

Fiber and tube color code

NO.1	1	2	3	4	5	6	7	8	9	10	11	12
Color	Blue	Orange	Green	Blown	Gray	White	Red	Black	Yellow	Purple	Pink	Aqua

Optical Characteristics

Single-mode				
Fiber type	G652D 1310/1550nm	G657A1 1310/1550nm	G657A2 1310/1550nm	G657B3 1310/1550nm
Attenuation(dB/km)	0.34/0.20	0.35/0.21	0.35/0.21	0.35/0.21
Zero dispersion slope	≤0.092 ps/(km*nm^2)	≤0.092 ps/(km*nm^2)	≤0.092 ps/(km*nm^2)	≤0.092 ps/(km*nm^2)
Dispersion(1285~1340nm)	-3.5~3.5 ps/(km*mm)	-3.5~3.5 ps/(km*mm)	-3.5~3.5 ps/(km*mm)	-3.5~3.5 ps/(km*mm)
Mode field diameter @1310nm	8.7~9.5μm	8.4~9.2μm	8.4~9.2μm	8.4~9.2μm
Cutoff wavelength cable(nm)	≤1260	≤1260	≤1260	≤1260
Min bend diameter(μm)	16	10	7.5	5
Cladding diameter(μm)	125.0±0.7	125.0±0.7	125.0±0.7	125.0±0.7
Coating diameter(μm)	240±5	240±5	240±5	240±5
Multi-mode				
Fiber type	62.5/125 850/1300nm		50/125 850/1300nm	
Attenuation(dB/km)	2.7/0.6		2.3/0.6	
Bandwidth(MHz*km)	≥200/≥500		≥500/≥500	
Min bend radius(mm)	30		30	
Core diameter(μm)	62.5±2.5		50.0±2.5	
Cladding diameter(μm)	125.0±1.0		125.0±1.0	
Coating diameter(μm)	245±7		245±7	

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