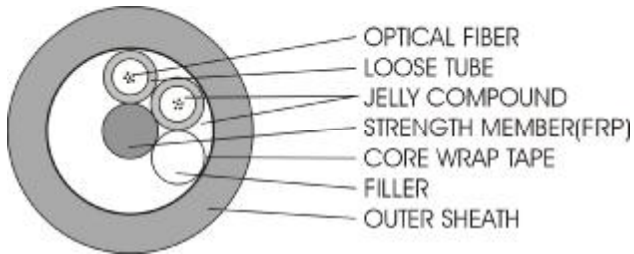


■ **SMALL DIAMETER DUCT INSTALLATION CABLE**



- **SINGLE MODE OPTICAL FIBER (ITU-T G.652B)
ITU-T G.652C/D, G.655 SERIES POSSIBLE**
- **LOOSE TUBE (JELLY FILLED)**
- **NON-METALLIC STRENGTH MEMBER**
- **SMALL DIAMETER OPE SHEATH
FOR DUCT INSTALLATION**

- Mechanical and Environmental Properties:

Item	Test Method	Test Condition	Acceptance Criteria
Tensile strength	IEC 794-1-E1	- Tensile load: 1.5 times 1km cable weight	Note 1), 2)
Crush	IEC 794-1-E3	- Load: 100kg/100mm	Note 1), 2)
Impact	IEC 794-1-E4	- Impact energy : 0.5kg×1m - Impact diameter : 25mm	Note 1), 2)
Repeated bending	IEC 794-1-E6	- Bending radius: 20× cable diameter - Bending cycles : 20	Note 1), 2)
Torsion	IEC 794-1-E7	- Test length: 2m - Twist angle: ±180 degrees - Twist cycles : 10	Note 1), 2)
Temperature cycling	IEC 794-1-F1	- Temperature change: -40℃ → +70℃	Note 3)
Water penetration	IEC 794-1-F5	- Cable length: 3m, Water height: 1m - Duration time: 24 hrs	No water leak

Note 1) Attenuation increase : ≤ 0.1dB

Note 2) No mechanical damage

Note 3) Attenuation variation : ≤ 0.1dB/km

Fiber Counts		24	48	72	96
Nominal cable diameter (mm)		8.7	9.7	9.7	11.4
Min. bend radius (mm)	No load	90	100	100	115
	Under load	180	200	200	230
Max. pulling tension (kgf)		150	200	200	270
Cable weight (kg/km)		69	85	85	120
Recommended temperature range		-40℃ ~ +70℃			

Annex 1. Color Code of Optical Fiber and Loose Tube

No.	1	2	3	4	5	6	7	8	9	10	11	12
Color	Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua

Annex 2. Optical Fiber Cable Unit Composition

Cable Core	The count of optical fiber per loose tube and unit composition							
	U1	U2	U3	U4	U5	U6	U7	U8
24C	6	6	6	6	F	F	-	-
48C	12	12	12	12	F	F	-	-
72C	12	12	12	12	12	12	-	-
96C	12	12	12	12	12	12	12	12

Note) F : PE Filler