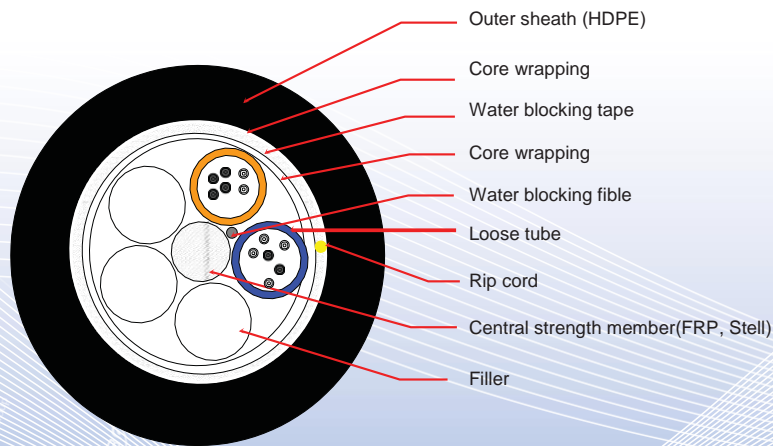


02 | LOOSE TUBE CABLE FOR DUCT (NON-METALLIC)

■ Cable structure



■ Features & application

- For installations in duct, trenched or tunnel systems.
- Design allows sub cables to be routed to multiple locations such wiring racks and closets.
- Ideal for installation requiring an extremely rugged and reliable cable design where maximum mechanical and environmental protection is necessary.

■ Mechanical & Environmental Characteristics

SPECIFICATIONS	PARAMETERS
Number of optical fiber	12 Fo ÷ 96 Fo
Out sheath diameter	11.0mm ÷ 18.0mm
Maximum load (installtion)	2700N
Maximum load (Operation)	1300N
Allowable crush load	2000N/100mm
Temperature ranger (installtion)	-5°C ÷ 65°C
Temperature ranger (operation)	-10°C ÷ 65°C
Bending Radius (installtion)	10*D (D= Cable diameter)
Bending Radius (operation)	20*D (D= Cable diameter)
Longevity	≥15 Years

Identification

TIA/EIA-598-A Compliance							
c	Blue	2	Orange	3	Green	4	Brown
5	Gray	6	White	7	Red	8	Black
9	Yellow	10	Violet	11	Pink	12	Aqua

Optical Characteristics

Specifications	Unit	Fiber type: SM-ITU-T G.652D
*. Geometrical characteristics		
Mode field diameter at 1310nm	μm	9.2 ± 0.4
Cladding diameter	μm	125 ± 1
Core-clad concentricity	μm	≤ 0.6
Cladding non-circularity	%	≤ 0.7
Coating diameter	μm	245 ± 10 (none color) 250 ± 10 (including color)
*. Transmission characteristics		
Attenuation at wavelength: 1310nm÷1625nm	dB/km	≤ 0.4
Attenuation at 1550nm	dB/km	≤ 0.22
Chromatic dispersion	ps/nm.km	≤ 3.5 at 1310nm ≤ 18 at 1550nm
PMD index	ps/km ^{1/2}	≤ 0.2
Zero dispersion wavelength	Nm	1300 ≤ λ ₀ ≤ 1324
Zero dispersion slope	ps/nm ² .km	≤ 0.092
Cut-off wavelength	Nm	λ _{cc} ≤ 1260
Macrobend loss at 1625nm (radius = 30mm * 100 turns)	dB	≤ 0.1
*. Mechanical characteristics		
Proof stress	Gpa	≥ 0.69

*. Using the optical fiber from Corning, Fujikura, Sumitomo and Furukawa.

Informations and parking

- The information of the cable is printed per meter length complies with IEEE P1222. Other information will be printed as the request of customer.
- Standard length: from 3000m to 5000m or is packed according to customer's requirements.