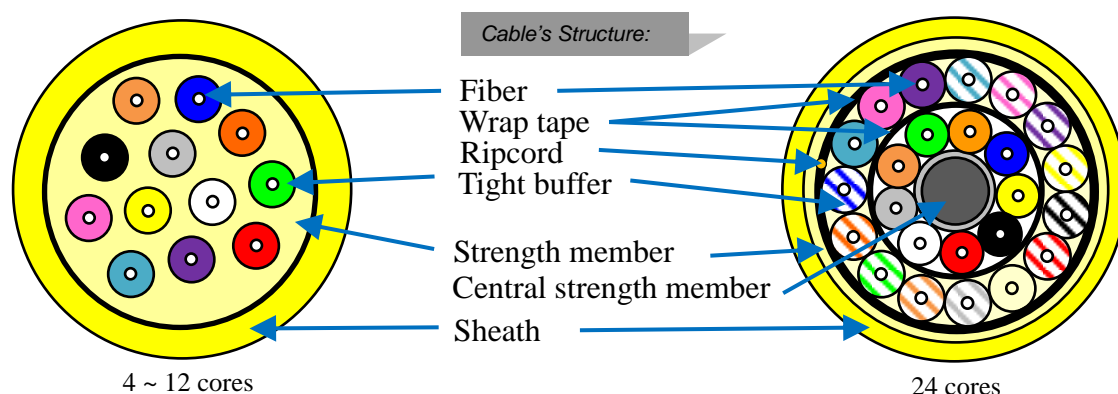


# Indoor Distribution Cable (SM)

## Product Features:

- Light, flexible and compact design
- Suitable for in-building wiring, building backbone
- Low smoke zero halogen sheath
- Complies with
  - Flammability ASTM D-2863
  - Flame propagation IEC 60332-1 & 3C
  - Gas Emission IEC 60754-1 & 2
  - Smoke Emission IEC 61034-2



## Optical Characteristic:

It conforms to the requirement of ITU-T G.652D, IEC 60793 & IEC 60794

Parameter	Condition	Value
<b>Fiber</b>		Singlemode Fiber
<b>Attenuation</b>	@1310nm	≤ 0.40dB/km
	@1550nm	≤ 0.30dB/km
<b>Zero Dispersion Wavelength</b>		1300~1324nm
<b>Zero Dispersion Slope</b>		≤ 0.093ps/nm <sup>2</sup> .km
<b>Cutoff Wavelength</b>		≤ 1260nm
<b>Mode Field Diameter(MFD)</b>	@1310nm	9.2 ± 0.5μm
<b>Polarization Mode Dispersion(PMD)</b>		≤ 0.20ps/√km
<b>Chromatic Dispersion</b>	@1285 – 1330nm	≤ 3.5 ps/nm.km
	@1550nm	≤ 18 ps/nm.km
<b>Marcobending Loss</b>	100turns;Φ50mm @1550nm	≤ 0.05dB
	100turns;Φ50mm @1625nm	≤ 0.10dB
<b>Fiber Curl Radius</b>		≥ 4m
<b>Cladding Diameter</b>		125 ± 1μm
<b>Coating Diameter</b>		245 ± 5μm

## Mechanical Characteristic:

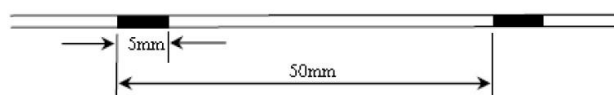
Parameter		Value			
Fiber Count		4	8	12	24
Tight Buffer Fiber Diameter		Φ910μm ± 20μm			
Cable Diameter		5.2 mm ± 0.4	6.6 mm ± 0.4	7.6 mm ± 0.4	9.0 mm ± 0.4
Cable Sheath Thickness		≥ 1.0 mm	≥ 1.1 mm	≥ 1.1 mm	≥ 1.2 mm
Cable Weight		30 kg/km	40 kg/km	50 kg/km	70 kg/km
Sheath Material		LSZH			
Strength Member		Aramid Yarn			
Minimum Bending Radius	Static	10D			
	Dynamic	15D			
* Max. Allowable Pulling Force		1000 N	1600 N	2500 N	2500 N
* Crush Resistance		2000 N/10cm			
Temperature	Operation	-20°C ~ +70°C			
	Installation	-10°C ~ +60°C			

\* Mechanical performance refer to Tensile Strength Test & Crush Resistance Test report

## Colour Coding:

Size of Fiber Cable	Colour of Coating		Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua
	4F			1	2	3	4	-	-	-	-	-	-	-
8F			1	2	3	4	5	6	7	8	-	-	-	-
12F			1	2	3	4	5	6	7	8	9	10	11	12
* 24F	1-12 same as 12 fiber unit		13 Blue with white stripe	14 Orange with black stripe	15 Green with white stripe	16 Brown with white stripe	17 Grey with white stripe	18 White with black stripe	19 Red with black stripe	20 Black with white stripe	21 Yellow with black stripe	22 Violet with white stripe	23 Pink with black stripe	24 Aqua with black stripe

\* Black/White stripes in 5mm long & 50mm apart



## Ordering Information:

Order No.	Description	Remark
INF1310 – XXYYZ	Indoor Distribution Cable	-
INF1310 – 12D2S	12-core G652D LSZH Indoor Distribution Cable	Example

XX= Fiber count ( 04 ~ 24 ) / YY= Fiber Type ( D2 : G652D ; A1 : G657A1 ; A2 : G657A2 ; M1 : OM1 ; M2 : OM2 ; M3 : OM3 ; M4 : OM4 ) / Z= Sheath ( S : LSZH ; V : PVC )



\*These figures are nominal value.  
 \*ZTT reserves the right to modify products and specifications without prior notice.

