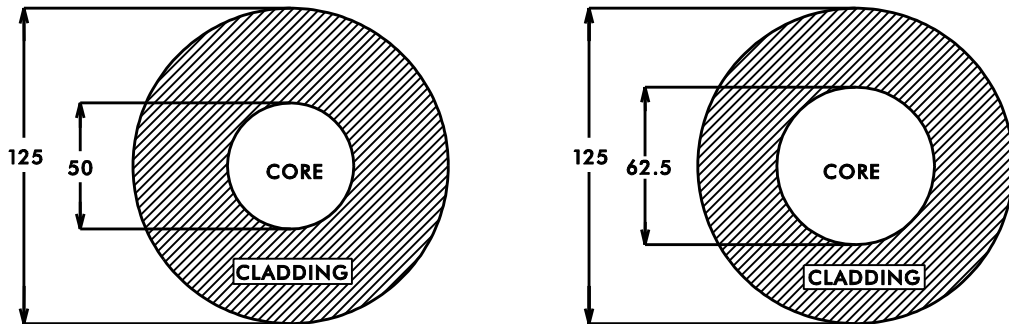


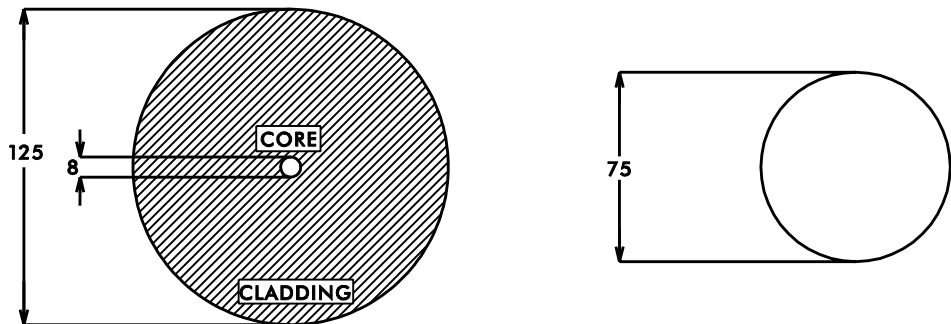
### FIBER OPTIC CROSS SECTION

ALL DIMENSIONS IN MICROMETERS (MICRONS)

1,000,000 MICRONS = 1 METER



TYPICAL DIMENSIONS OF MULTIMODE FIBER



TYPICAL DIMENSIONS OF SINGLE MODE FIBER

TYPICAL DIMENSION OF HUMAN HAIR

### TYPICAL SIGNAL WAVELENGTHS

FIBER TYPE	SIGNAL WAVELENGTH	TYPICAL LOSSES
MULTIMODE	850 nm	3.75 dB / km
	1310 nm	1.5 dB / km
SINGLE MODE	1310 nm	0.5 dB / km
	1550 nm	0.25 dB / km

### FIBER COLOR CODE

NUMBER	COLOR
1	BLUE
2	ORANGE
3	GREEN
4	BROWN
5	SLATE
6	WHITE
7	RED
8	BLACK
9	YELLOW
10	VIOLET
11	ROSE
12	AQUA

NUMBER	COLOR
1	BLUE
2	ORANGE
3	GREEN
4	BROWN
5	SLATE
6	WHITE
1	BLUE
2	ORANGE
3	GREEN
4	BROWN
5	SLATE
6	WHITE

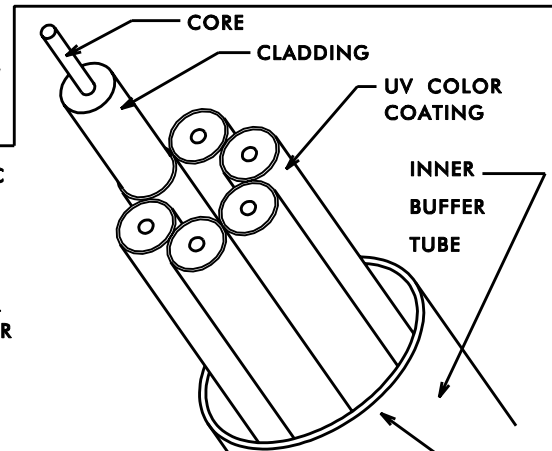
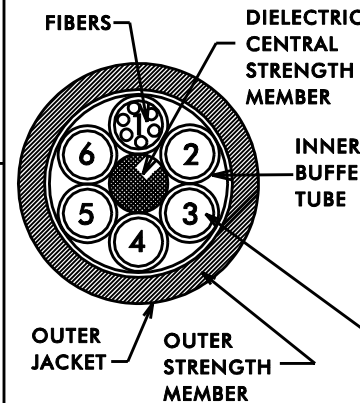
INDIVIDUAL FIBERS CAN BE IDENTIFIED BY NUMBER AND BY COLOR

WHEN SPECIFYING BY COLOR IT IS CUSTOMARY TO REFER TO THE BUFFER TUBE COLOR FOLLOWED BY THE FIBER COLOR

"ORANGE / GREEN" IS THE GREEN FIBER IN THE ORANGE BUFFER TUBE

IF A CABLE CONTAINED 144 FIBERS ARRANGED WITH 12 BUFFER TUBES EACH CONTAINING 12 FIBERS, THEN THE FOLLOWING WOULD BE TRUE

- "BLUE / BLUE" = FIBER 1
- "GREEN / BROWN" = FIBER 28
- "RED / RED" = FIBER 79
- "AQUA / AQUA" = FIBER 144



## Fiber Optic Cable

TRAFFIC MANAGEMENT SYSTEMS SECTION  
 TRAFFIC ENGINEERING AND SAFETY SYSTEMS BRANCH  
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

STD. NO.

2.0

SHEET 1 OF 1