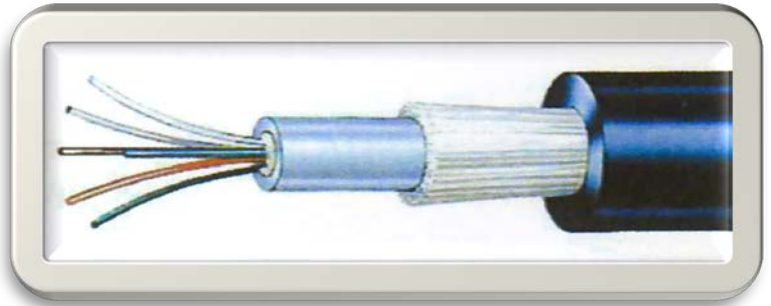


## External Single Tube Multi Mode Cable

**Uses:** Tight confines of a duct where flexibility and abrasion resistance are required, and can be aerially lashed or directly buried underground

**Construction:** The optical Fibres are contained in a jelly filled loose tube, non-metallic armoured, Polyethylene sheathed with an insect-resistant nylon outer jacket.



### Construction Options:

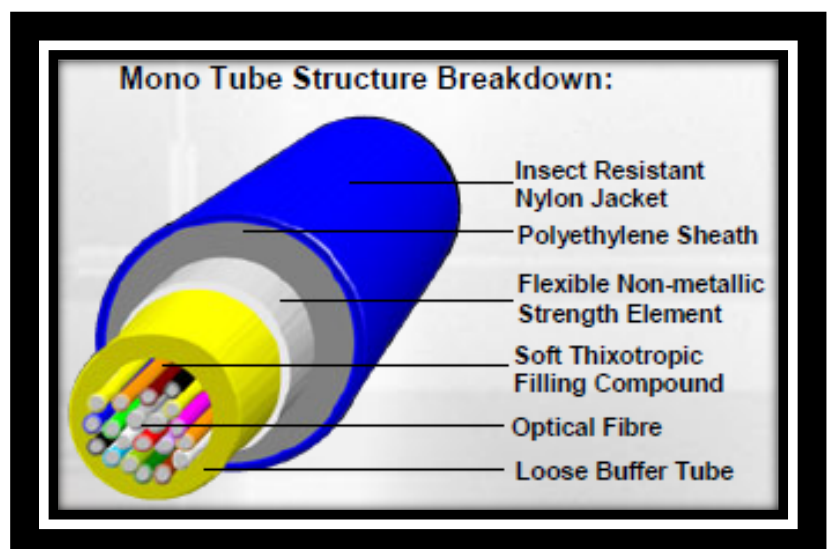
- 2 - 144 Fibre counts available.
- Steel central strength member.
- Supplied with sacrificial sheath.
- Composite Multi mode and Single mode available.

| CODE         | No. of Fibres | Nom. O.D. (mm) | Nom. Weight {Kg/Km} | Rated Tensile Strength {Kg} | Min. Bend Radius {mm} |           | Maximum Crush Resistance (Kg/100mm) |
|--------------|---------------|----------------|---------------------|-----------------------------|-----------------------|-----------|-------------------------------------|
|              |               |                |                     |                             | No Load               | Full Load |                                     |
| CSFIBRE4ST*  | 4             | 8              | 45                  | 150                         | 45                    | 90        | 200                                 |
| CSFIBRE6ST*  | 6             | 8              | 45                  | 150                         | 45                    | 90        | 200                                 |
| CSFIBRE8ST*  | 8             | 8              | 45                  | 150                         | 45                    | 90        | 200                                 |
| CSFIBRE12ST* | 12            | 8              | 45                  | 150                         | 45                    | 90        | 200                                 |

{ \* } Substitute for SM or OM number i.e. OM1 / OM3 / OM4

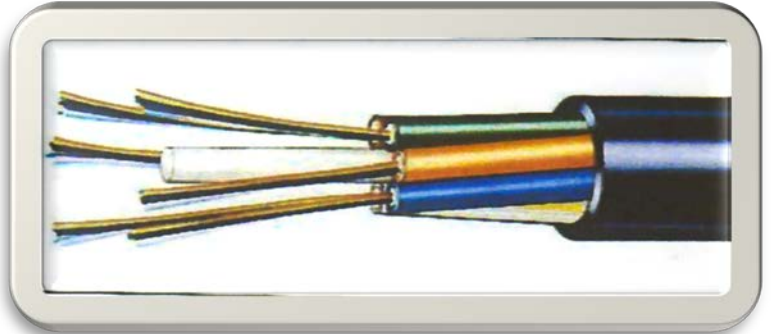
### Features:

- Fibres provide optimum performance due to tube construction containing fibres in a stress-free state.
- Tube construction allows easy break-out of fibres.
- Tubes and fibres colour coded for ease of identification.
- Standard design provides high strength and high crush resistance.



## External Loose Tube Multi Mode

**Construction:** The 62.5 optical Fibres are contained in 2.35mm jelly filled loose tube, laid up around an FRP central strength member and Polyethylene sheathed.



### Construction Options:

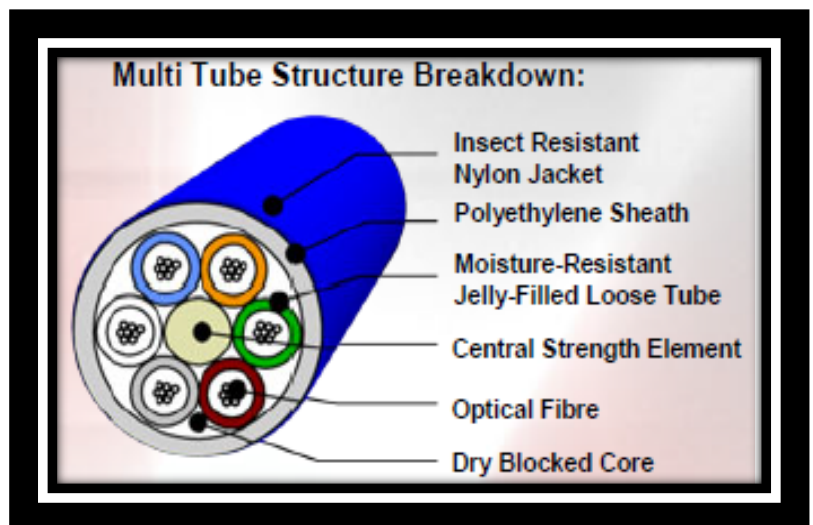
- 2 - 144 Fibre counts available.
- Steel central strength member.
- Supplied with sacrificial sheath.
- Higher crush resistance specifications available on application.
- Composite Multi mode and Single mode available.

| CODE            | No. of Fibres | Nom. O.D. (mm) | Nom. Weight (kg/km) | Rated Tensile Strength (kg) | Min. Bending Radius (mm) |           |                                     |
|-----------------|---------------|----------------|---------------------|-----------------------------|--------------------------|-----------|-------------------------------------|
|                 |               |                |                     |                             | No Load                  | Full Load | Maximum Crush Resistance (kg/100mm) |
| CSFIBRE4MLTOM * | 4             | 10.2           | 85                  | 200                         | 100                      | 200       | 200                                 |
| CSFIBRE6MLTOM*  | 6             | 10.2           | 85                  | 200                         | 100                      | 200       | 200                                 |
| CSFIBRE8MLTOM*  | 8             | 10.2           | 85                  | 200                         | 100                      | 200       | 200                                 |
| CSFIBRE12MLTOM* | 12            | 10.2           | 85                  | 200                         | 100                      | 200       | 200                                 |
| CSFIBRE16MLTOM* | 16            | 10.2           | 85                  | 200                         | 100                      | 200       | 200                                 |
| CSFIBRE18MLTOM* | 18            | 10.2           | 85                  | 200                         | 100                      | 200       | 200                                 |
| CSFIBRE24MLTOM* | 24            | 10.2           | 85                  | 200                         | 100                      | 200       | 200                                 |

{ \* } Substitute for OM number i.e. OM<sub>1</sub> / OM<sub>3</sub> / OM<sub>4</sub>

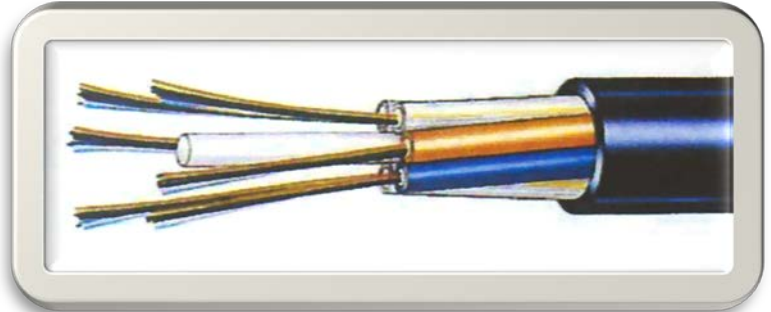
### Features:

- Fibres provide optimum performance due to tube construction containing fibres in a stress-free state.
- Tube construction allows easy break-out of fibres.
- Tubes and fibres colour coded for ease of identification.
- Standard design provides high strength and high crush resistance.



## External Loose Tube Single Mode

**Construction:** The 62.5 optical Fibres are contained in 2.35mm jelly filled loose tube, laid up around an FRP central strength member and Polyethylene sheathed.



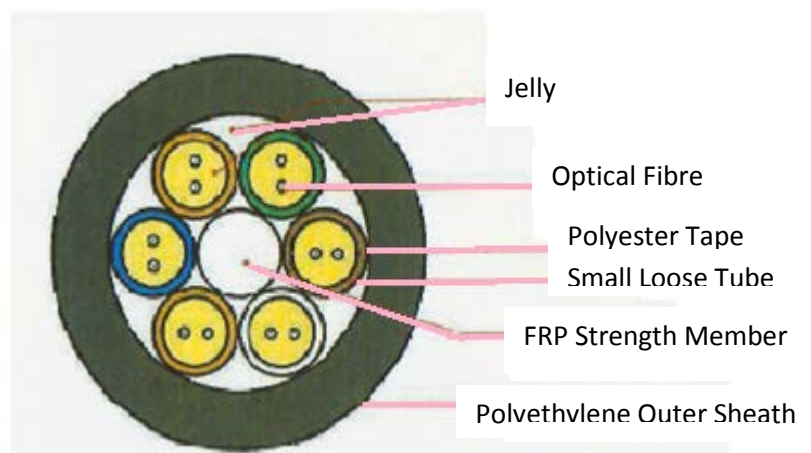
### Construction Options:

- 2 - 144 Fibre counts available.
- Steel central strength member.
- Supplied with nylon (hard) jacket
- Supplied with PVC sacrificial Sheath.
- Higher crush resistance specifications available on application.

| CODE        | No. of Fibres | Nom. O.D. (mm) | Nom. Weight (kg/km) | Rated Tensile Strength (kg) | Min. Bending Radius (mm) |           |     | Maximum Crush Resistance (kg/100mm) |
|-------------|---------------|----------------|---------------------|-----------------------------|--------------------------|-----------|-----|-------------------------------------|
|             |               |                |                     |                             | No load                  | Full Load |     |                                     |
| CSFIBRE6SL  | 6             | 10.2           | 85                  | 200                         | 100                      | 200       | 200 |                                     |
| CSFIBRE8SL  | 8             | 10.2           | 85                  | 200                         | 100                      | 200       | 200 |                                     |
| CSFIBRE12SL | 12            | 10.2           | 85                  | 200                         | 100                      | 200       | 200 |                                     |
| CSFIBRE16SL | 16            | 10.2           | 85                  | 200                         | 100                      | 200       | 200 |                                     |
| CSFIBRE24SL | 24            | 10.2           | 85                  | 200                         | 100                      | 200       | 200 |                                     |

### Features:

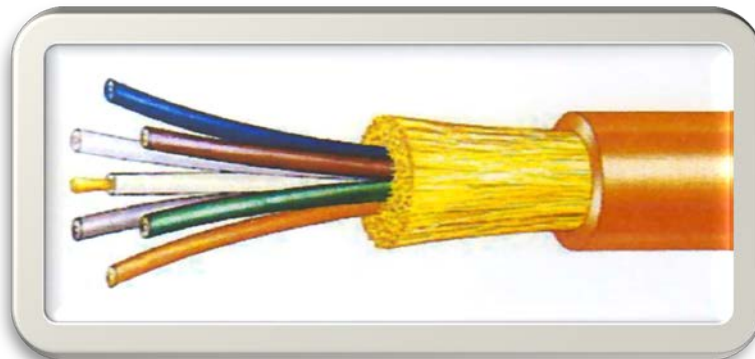
- Fibres provide optimum performance due to tube construction containing fibres in a stress-free state.
- Tube construction allows easy break-out of fibres.
- Tubes and fibres colour coded for ease of identification.
- Standard design provides high strength and high crush resistance.



## Internal Riser

**Uses:** In multi storey buildings where long vertical drops are required, linking buildings or as Backbones.

**Construction:** Buffered fibres laid up around a jacketed aramid yarn central strength member, aramid yarn reinforced, PVC sheath.



### Construction Options:

- Fibre counts 2, 4, 6, 12 fibres
- Single mode 10/125/900 fibre or multi mode 50/125/900 micron fibre may be specified.
- Halogen Free and Flame retardant sheath can be specified.
- Tight buffer riser available on request – NTA series, no central member.

| CODE         | No. of Fibres | Nom. O.D. (mm) | Nom. Weight (kg/km) | Rated Tensile Strength (N) | Min. Bending Radius (mm) |           | Maximum Crush Resistance (N/100mm) |
|--------------|---------------|----------------|---------------------|----------------------------|--------------------------|-----------|------------------------------------|
|              |               |                |                     |                            | No Load                  | Full Load |                                    |
| CSFIBRE4IN*  | 4             | 5.6            | 28                  | 600                        | 86                       | 112       | 500                                |
| CSFIBRE6IN*  | 6             | 6.2            | 33                  | 600                        | 93                       | 112       | 500                                |
| CSFIBRE8IN*  | 8             | 6.8            | 36                  | 600                        | 102                      | 126       | 500                                |
| CSFIBRE12IN* | 12            | 7.2            | 41                  | 600                        | 108                      | 114       | 500                                |
| CSFIBRE24IN* | 24            | 8              | 58                  | 900                        | 120                      | 160       | 500                                |

{ \* } Substitute for SM or OM number i.e. OM1 / OM3 /OM4

### Features:

- High crush resistance.
- Colour coding of fibre for ease of identification.
- Design for ease of breakout

