

**DS-QFV-CKS4L/3000M****4-Core Single Mode Flame Retardant Optical Fiber 3000M**

- Loose tube construction, tubes jelly filled, elements (tubes and filler rods) and water blocking yarns laid up around metallic central strength member, polyester yarns used to bind the cable core, water blocking tape, then steel tape and LSZH outer sheath

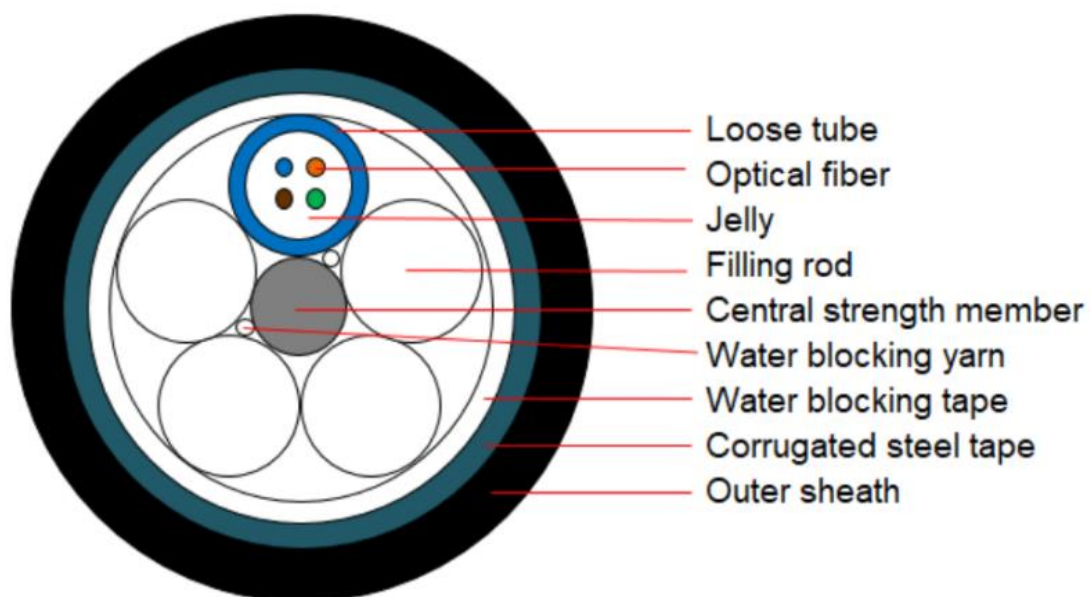
## ▪ Specification

| Basic Parameter                                       |                                                                                                                                                                                                     |
|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fiber Type                                            | 4-Core Single Mode                                                                                                                                                                                  |
| Attenuation                                           | @ 1310 nm : $\leq 0.360$ dB/km<br>@ 1550 nm : $\leq 0.220$ dB/km                                                                                                                                    |
| Dispersion                                            | @ 1288 nm ~ 1339 nm : $\leq 3.5$ ps/(nm.km)<br>@ 1550 nm : $\leq 18.0$ ps/(nm.km)                                                                                                                   |
| Zero Dispersion Wavelength                            | 1300 nm-1324 nm                                                                                                                                                                                     |
| Dispersion Slope at Zero Dispersion Wavelength        | $\leq 0.092$ ps/ (nm <sup>2</sup> ·km)                                                                                                                                                              |
| Cut off Wavelength of Cabled Fiber ( $\lambda_{cc}$ ) | $\leq 1260$ nm                                                                                                                                                                                      |
| Polarization Mode Dispersion Link Value               | $\leq 0.1$ ps/vkm                                                                                                                                                                                   |
| Polarization Mode Dispersion for Individual Fiber     | $\leq 0.2$ ps/vkm                                                                                                                                                                                   |
| General                                               |                                                                                                                                                                                                     |
| Mode Field Diameter                                   | @ 1310 nm : $9.2\mu\text{m} \pm 0.4\mu\text{m}$<br>@ 1550 nm : $10.4\mu\text{m} \pm 0.5\mu\text{m}$                                                                                                 |
| Cladding Diameter                                     | $125\mu\text{m} \pm 0.7\mu\text{m}$                                                                                                                                                                 |
| Core/Cladding Concentricity Error                     | $\leq 0.6\mu\text{m}$                                                                                                                                                                               |
| Cladding Non-Circularity                              | $\leq 1.0\%$                                                                                                                                                                                        |
| Coating Diameter                                      | $242\mu\text{m} \pm 7\mu\text{m}$                                                                                                                                                                   |
| Cladding Coating Concentricity Error                  | $\leq 12\mu\text{m}$                                                                                                                                                                                |
| Min. Bending Radius for Installation                  | Static: 10 x cable diameter<br>Dynamic: 20 x cable diameter                                                                                                                                         |
| Application Temperature Range                         | Operation: $-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$<br>Installation: $-20^{\circ}\text{C} \sim +60^{\circ}\text{C}$<br>Storage/transportation: $-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$ |

## ▪ Available Model

DS-QFV-CKS4L/3000M

## ▪ Dimension



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