

## JACKETED COMMUNICATION FIBER

Industrial Fiber Optics maintains inventories of a wide variety of 1000  $\mu\text{m}$  (1 mm) core industry-standard jacketed PMMA optical fiber. To meet customer requirements in areas such as computer peripherals, photoelectric switches, digital audio equipment, illumination and medical electronics, we offer all fibers listed in the table below in 500- or 1000-meter spools:



| GRADE                       | PRODUCT CODE | FIBER DIA. (mm) × NUM. | JACKET MAT'L/ COLOR | JACKET DIA. (mm)          | OPER TEMP. (°C) | ATTEN. (dB/m) <b>PDF</b> | FIBER NA | TENSILE STREN. (kg) | LENGTH PER SPOOL (m) | ORDERING STOCK NUMBER | COMMENTS   |
|-----------------------------|--------------|------------------------|---------------------|---------------------------|-----------------|--------------------------|----------|---------------------|----------------------|-----------------------|------------|
| SUPER ESKA®                 | SH2001       | .5 × 1                 | PE (BLK)            | 1.0±0.07                  | -55~+70         | <0.22*                   | 0.51     | 2                   | 1000                 | 810116                | <b>PDF</b> |
|                             | SH3001       | .75 × 1                | PE (BLK)            | 2.2±0.07                  | -55~+70         | <0.20*                   | 0.51     | 5                   | 1000                 | 810117                | <b>PDF</b> |
|                             | SH4001       | 1.0 × 1                | PE (BLK)            | 2.2±0.07                  | -55~+70         | <0.20*                   | 0.5      | 9                   | 500                  | 810004                | <b>PDF</b> |
|                             | SH6001       | 1.5 × 1                | PE (BLK)            | 3.0±0.15                  | -55~+70         | <0.20*                   | 0.5      | 16                  | 500                  | 810019                | <b>PDF</b> |
|                             | SH8001       | 2.0 × 1                | PE (BLK)            | 3.0±0.15                  | -55~+70         | <0.20*                   | 0.5      | 29                  | 500                  | 810020                | <b>PDF</b> |
|                             | SH4002       | 1.0 × 2                | PE (BLK)            | A. 2.2±0.07<br>B. 4.4±0.1 | -55~+70         | <0.20*                   | 0.5      | 14                  | 500                  | 810025                | <b>PDF</b> |
| ESKA PREMIER®               | GH4001       | 1.0 × 1                | PE (BLK)            | 2.2±0.07                  | -55~+85         | ≤.14                     | .51      | 8                   | 500                  | 810012                | <b>PDF</b> |
|                             | GH4002       | 1.0 × 2                | PE (BLK)            | A. 2.2±0.07<br>B. 4.4±0.1 | -55~+85         | ≤.14                     | .51      | 14                  | 500                  | 810027                | <b>PDF</b> |
|                             | GHV4001      | 1.0 × 1                | PVC (GRAY)          | 2.2±0.07                  | -55~+85         | ≤.14                     | .51      | 7                   | 500                  | 810013                | <b>PDF</b> |
|                             | GHV4002      | 1.0 × 1                | PVC (GRAY)          | 2.2±0.07                  | -55~+85         | ≤.14                     | .51      | 14                  | 500                  | 810130                | <b>PDF</b> |
|                             | GHCP4001     | 1.0 × 1                | PVC (GRAY)          | 2.2±0.07                  | -55~+85         | ≤.14                     | .51      | 8                   | 5000                 | 810120                | <b>PDF</b> |
|                             | GHCP4002     | 1.0 × 1                | PVC (GRAY)          | 2.2±0.07                  | -55 to          | ≤.14                     | .51      | 14                  | 5000                 | 810125                | <b>PDF</b> |
| HEAT RESISTANT <sup>1</sup> | DH4001       | 1.0 × 2                | XPE (BLK)           | 2.2±0.07                  | -55~+115        | <0.3*                    | 0.54     | 14                  | 500                  | 810016                | <b>PDF</b> |
| HEAT RESISTANT <sup>2</sup> | FH4001       | 1.0 × 1                | XPE (BLK)           | 2.2±0.07                  | -55~+125        | <0.7*                    | 0.75     | 14                  | 500                  | 810017                | <b>PDF</b> |
| ESKA MEGA®                  | MH4001       | 1.0 × 1                | PE (BLK)            | 2.2±0.07                  | -40~+85         | ≤.14*                    | .3       | 7                   | 500                  | 810018                | <b>PDF</b> |

PE: Polyethylene

PVC: Polyvinylchloride

XPE: Crosslink polyethylene

<sup>1</sup> Fiber core material is heat resistant 115°C type

<sup>2</sup> Fiber core material is heat resistant 125°C type

\* Measured at room temperature with 650 nm collimated light

\*\* Measured at room temperature with collimated non-filtered tungsten-halogen light

## OPTICAL PROPERTIES

| GRADE         | REFRACTIVE INDEX CORE | REFRACTIVE INDEX CLADDING | NA  | ACCEPTANCE ANGLE |
|---------------|-----------------------|---------------------------|-----|------------------|
| Super Eska®   | 1.492                 | 1.402                     | .51 | 60°              |
| Eska Premier® | 1.492                 | 1.402                     | .51 | 60°              |
| Eska D        | 1.492                 | 1.392                     | .54 | 65°              |
| Eska F        | 1.582                 | 1.392                     | .75 | 97°              |
| Eska Mega®    | 1.492                 | 1.456                     | .3  | 35°              |

