

j-FiberUnit 40 **enabling 40 Gb/s Ethernet OM3 parallel transmission**

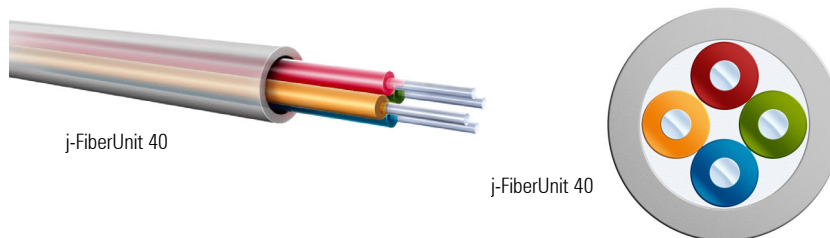
The new j-fiber solution to enable parallel 40 Gb/s Ethernet transmission for highly flexible cable installations

Advanced cabling in datacenters demands for higher data rate transmission already today while reducing network complexity and costs. j-FiberUnit 40 is j-fiber's new solution for 40 Gb/s OM3 parallel high-bandwidth transmission.

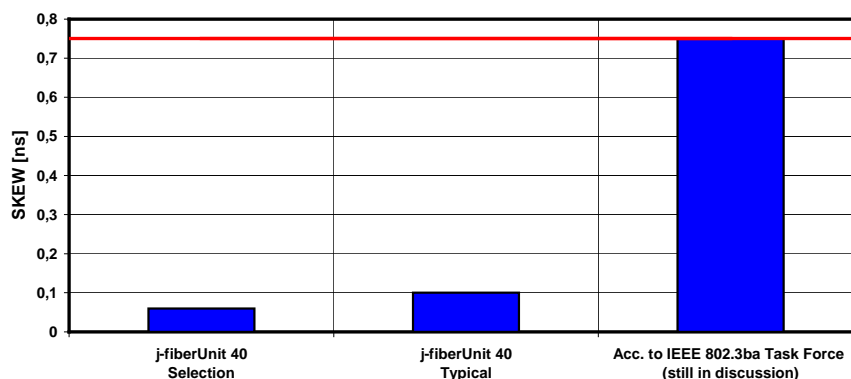
j-fiber FiberUnit 40 uses 4 j-fiber OptiGrade OM3 multimode fibers with 10Gb/s data-rate transmission capacity each.

Unlike current fiber ribbon constructions, j-FiberUnit 40 has no preferential bend orientation. With a minimum skew value far below the required $\leq 0.75\text{ns}$ (run time differences between the signal of the fibers) j-FiberUnit 40 ensures reliable 40 Gb/s parallel transmission. With a link length up to 150 m¹ j-FiberUnit 40 performs even beyond approved IEEE objectives and thereby allows to make IT cabling installations in advanced datacenters future-safe, well-structured and cost-efficient.

¹ Final fiber-unit length in the IEEE 802.3ba Task Force is still in discussion



Typical Skew Advantage of j-FiberUnit 40
Skew/100 m Link Length



For further information about j-fiber products and services, please contact us:

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Application

j-FiberUnits have been designed as a parallel transmission solution for next generation datacenter or office IT-cabling with demand for high-bandwidth of up to 40 Gb/s transmission rates. j-FiberUnits support link-lengths of 150 m to allow for structured, cost-efficient cabling and future-safe planning perspectives.

Flexible Use. Best Skew. High Link-Lengths.

- No preferential bend orientation
- Enables 40 Gb/s transmission using 4 OM3 OptiGrade fibers
- Up to 150 m link-length
- Excellent skew values of far below $\leq 0.75\text{ ns}$
- Easy removable buffer material
- Different color coded fiber sets for full 40Gb/s duplex operation

Specification FiberUnit 40

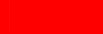







| j-FiberUnit 40 | Spec. Values | Unit |
|------------------------------------|------------------------------------|-------|
| Number of Fibers in Unit | 4 | |
| Max. Attenuation in Unit at 850nm | ≤2.6 | dB/km |
| Max. Attenuation in Unit at 1300nm | ≤0.8 | dB/km |
| Skew | ≤0.75 | ns |
| Transmission Link length | ≤150 | m |
| Outside Diameter | 850 ±50 | μm |
| Color Set Fibers | 2 color sets for Duplex Deployment | |
| Buffer Material | UV cured Acrylate | |
| Color Buffer Material | Clear | |
| Filling Compound | Easy removable gel | |
| Operating Temperature Range | -20 to +80 | °C |

Specification Fiber

| OptiGrade 50/125/250 OM3 Fiber | Spec. Values | Unit |
|-------------------------------------|---------------------------------------|----------------|
| Fiber Type | OptiGrade 50/125/250 OM3 ¹ | |
| Core Diameter | 50 ± 2.5 | μm |
| Cladding Diameter | 125 ± 1.0 | μm |
| Coating Diameter | 245 ± 10.0 | μm |
| Numerical Aperture | 0.200 ± 0.015 | |
| Effective Group Index of Refraction | 850nm 1300nm | 1.483 1.478 |

¹See j-fiber OptiGrade Multimode Fiber Series datasheet for details

Colors according to IEC 60304¹

| | Color | |
|------------------|--------|---|
| j-FiberUnit 40 A | Red |  |
| | Green |  |
| | Blue |  |
| | Yellow |  |
| j-FiberUnit 40 B | White |  |
| | Grey |  |
| | Brown |  |
| | Purple |  |

¹ Other colors and color combinations available upon request

Ordering Information

To order our j-FiberUnit 40 please call, fax or email us and specify the following parameters when ordering:

| | |
|----------------------|--|
| Desired Attenuation: | at 850 nm/1300 nm |
| Unit Quantity: | m/km |
| Color Set: | Specific colors |
| Other: | desired ship date, reel length, special requests |

All fibers and preforms are subject to j-fiber's ongoing process and quality improvement programs ensuring excellent performance and high reliability. We reserve the right to make changes to the above specification without notice.

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