

## MiniFlex cable – 12 to 24 fibers

### Basic characteristic

- Indoor cable with very high crush
- resistance Suitable for FTTX applications,
- Datacenters, Telecoms, transportation, military
- Suitable for direct MTP termination
- Low Smoke Zero Halogen outer sheath (LSZH)



### Cable parameters

|                                    |               |                       |
|------------------------------------|---------------|-----------------------|
| Jacket material                    |               | LSZH                  |
| Cable construction                 |               | Miniflex cable        |
| Outer diameter                     | 12 fibers:    | approx. 3,0mm x 0,8mm |
|                                    | 24 fibers:    | approx. 4,0mm x 0,7mm |
| Weight                             | 12 fibers:    | 7,5 kg/km             |
|                                    | 24 fibers:    | 8,6 kg/km             |
| Tension strength                   | 12 fibers:    | 100N                  |
|                                    | 24 fibers:    | 100N                  |
| Fiber type                         | SM:           | OS2                   |
|                                    | MM:           | OM3                   |
|                                    |               | OM4                   |
|                                    |               | OM5                   |
| Minimum Bend radius - installation | 12 fibers:    | 15mm                  |
|                                    | 24 fibers:    | 20mm                  |
| Minimum Bend radius - operation    | 12 fibers:    | 30mm                  |
|                                    | 24 fibers:    | 40mm                  |
| Temperature range                  | operation:    | -20°C to +85°C        |
|                                    | installation: | -20°C to +60°C        |

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### Transmission Performance Specification

|                                        |     |                            |
|----------------------------------------|-----|----------------------------|
| Attenuation (850/1300nm)               | SM: | N/A                        |
|                                        | MM: | ≤2,3/0,60 dB/km            |
| Attenuation (1310/1550nm)              | SM: | ≤0,35/0,21 dB/km           |
|                                        | MM: | N/A                        |
| Attenuation at 1625nm                  | SM: | <0,24 dB/km                |
|                                        | MM: | N/A                        |
| Refractive Index at 1310nm, 1550nm     | SM: | 1,467; 1,468               |
|                                        | MM: | N/A                        |
| Refractive Index at 850nm, 1300nm      | SM: | N/A                        |
|                                        | MM: | 1,482; 1,477               |
| Proof test                             | SM: | 0,69GPa (100kpsi), 1% min. |
|                                        | MM: | 0,69GPa (100kpsi), 1% min. |
| Cladding diameter                      | SM: | 125±0,7µm                  |
|                                        | MM: | 125±1,0µm                  |
| Coated diameter                        | SM: | 235µm to 245µm             |
|                                        | MM: | 237µm to 247µm             |
| Core/Cladding concentricity error      | SM: | ≤0,5µm                     |
|                                        | MM: | ≤1,0µm                     |
| Coating concentricity error            | SM: | ≤12µm (1550nm)             |
|                                        | MM: | ≤6µm (850 & 1300nm)        |
| 10turns at 50mm diameter               | SM: | ≤0,01dB                    |
|                                        | MM: | ≤0,2dB                     |
| 10turns at 30mm diameter               | SM: | ≤0,2dB                     |
|                                        | MM: | N/A                        |
| 1turn at 20mm diameter                 | SM: | ≤0,2dB                     |
|                                        | MM: | N/A                        |
| Temp. range (operation) -60°C to +85°C | SM: | max ≤0,05dB/km             |
|                                        | MM: | max ≤0,1dB/km              |
| Coating Strip Force                    | SM: | 1,3 to 8,9 N               |
|                                        | MM: | 1,3 to 8,9 N               |

| Inkjet print | Jacket colour |
|--------------|---------------|
| N/A          | White         |
| N/A          | White         |
| N/A          | White         |
| N/A          | White         |

\* Specifications are subject to change without notice

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