



Graded-Index multimode optical fibres 50/125 micron. The fibres are designed for use at 850, 953 and 1300 nm. These fibres are suitable for use in premises wiring applications, like Local Area Networks (LAN) with video, data and voice using LED, VCSEL or Laser Fabry Perot sources.

The fibre complies with or exceeds ITU-T Recommendation G651.1 (OM2, OM3 y OM4), IEC 60793-2-10 A1a.1, A1a.2, A1a.3, A1a.4 Optical Fibre Specification, ISO/IEC 11801 OM2 / OM3 / OM4 / OM5 specification, TIA/EIA-492AAAB, TIA/EIA-492AAAC, TIA/EIA-492AAAD, TIA/EIA-492AAAE, Telcordia GR-20-CORE, GR-409-CORE.

| GEOMETRICAL AND MECHANICAL CHARACTERISTICS | VALUES                                                            |
|--------------------------------------------|-------------------------------------------------------------------|
| Core diameter                              | $50 \pm 2.5 \text{ } \mu\text{m}$                                 |
| Core non-circularity                       | $\leq 5 \text{ } \%$                                              |
| Core / Cladding concentricity error        | $\leq 1.5 \text{ } \mu\text{m}$                                   |
| Cladding diameter                          | $125 \pm 1.0 \text{ } \mu\text{m}$                                |
| Cladding non-circularity                   | $\leq 1.0 \text{ } \%$                                            |
| Primary coating diameter                   | $245 \pm 10 \text{ } \mu\text{m}$                                 |
| Coating concentricity error                | $\leq 12.0 \text{ } \mu\text{m}$                                  |
| Proof Test                                 | $\geq 8.8 \text{ N} / \geq 1 \text{ } \% / \geq 100 \text{ Kpsi}$ |

Geometrical and mechanical characteristics according to IEC 60793-2-10.

| OPTICAL CHARACTERISTICS         |              | OM2               | OM3         | OM4         | OM5         |
|---------------------------------|--------------|-------------------|-------------|-------------|-------------|
| Attenuation Coefficient (dB/Km) | 850 nm       | $\leq 2.4$        | $\leq 2.4$  | $\leq 2.4$  | $\leq 2.4$  |
|                                 | 953 nm       | -                 | -           | -           | $\leq 1.8$  |
|                                 | 1300 nm      | $\leq 0.7$        | $\leq 0.7$  | $\leq 0.7$  | $\leq 0.6$  |
| Bandwidth (MHz.Km)              | 850 nm       | $\geq 500$        | $\geq 1500$ | $\geq 3500$ | $\geq 3500$ |
|                                 | 953 nm       | -                 | -           | -           | $\geq 1850$ |
|                                 | 1300 nm      | $\geq 500$        | $\geq 500$  | $\geq 500$  | $\geq 500$  |
| Link Distance (m)               | 1000Base-SX  | 550               | 900         | 1100        | 1000        |
|                                 | 1000Base-LX  | 550               | 550         | 550         | 600         |
|                                 | 10GBASE-SX   | 82                | 300         | 550         | 400         |
|                                 | 40GBASE-SR4  | -                 | 100         | 150         | 150         |
|                                 | 100GBASE-SR1 | -                 | 100         | 150         | 100         |
| Numerical Aperture              |              | $0.200 \pm 0.015$ |             |             |             |
| Group Index of Refraction       | 850 nm       | 1.482             |             |             |             |
|                                 | 1300 nm      | 1.477             |             |             |             |

Optical properties according to IEC 60793-2-10, ISO/IEC 11801, EN 50173, TIA/EIA-492AAAB, TIA/EIA-492AAAC-A, TIA/EIA-492AAAD, Telcordia GR-20-CORE, GR-409-CORE.

Optical specifications for uncabled fibre.