Product Datasheet

Dry ST Page 1 of 2 Rev. 12 - 04/16/04

Pigtails



Dry semi-tight buffered optical fibres

Key features

- Dry semi-tight buffered fibres with excellent strippability.
- Predicted lifetime > 30 years.

Construction (in accordance with IEC 60794) & dimensions

- 1. Primary coated optical fibres: \emptyset 250 \pm 15 μ m.
- 2. Dry semi-tight buffer: Ø 0.9 ± 0.1 mm.

Optical characteristics

Characteristics (cabled) Multi-Mode - Graded-Index optical fibres according to IEC 60793

| Fibre-type | Size | Wavelength | Attenuation average/max. | Bandwidth | Ethernet Performance (m) | | Refractive Index |
|------------|------------|------------|--------------------------|-----------|-----------------------------|-------|------------------|
| | (µm) | (nm) | (dB/km) | (MHz∙km) | 1GbE | 10Gbe | |
| 62.5/125 | 62.5 ± 2.5 | 850 | 3.0 / 3.2 | ≥ 200 | 275 | 33 | 1.495 |
| OM1 | 125 ± 1 | 1300 | 0.7 / 0.9 | ≥ 600 | 550 | n.a. | 1.490 |
| 50/125 | 50 ± 2.5 | 850 | 2.6 / 2.8 | ≥ 600 | 550 | 82 | 1.481 |
| OM2 | 125 ± 1 | 1300 | 0.6 / 0.9 | ≥ 1200 | 550 | n.a. | 1.476 |
| 50/125 | 50 ± 2,5 | 850 | 2,6 / 2,8 | ≥ 600 | 750 | 110 | 1,481 |
| OM2e | 125 ± 1 | 1300 | 0,6 / 0,9 | ≥ 1200 | 2000 | na | 1,476 |
| 50/125 | 50 ± 2.5 | 850 | 2.6 / 2.8 | ≥ 1500 | 900 | 300 | 1.482 |
| OM3 | 125 ± 1 | 1300 | 0.6 / 0.9 | ≥ 500 | 550 | n.a. | 1.477 |

Characteristics (cabled) Single-Mode - Matched-Cladded optical fibres according to ITU-G.652B

| Fibre-type | Size | Wavelength | Attenuation average/max. | Dispersion | PMD | Refractive Index | |
|-------------------|---------------|------------|--------------------------|--------------|----------|---------------------|--|
| | (µm) | (nm) | (dB/km) | (ps/(nm∙km)) | (ps/√km) | IIIdex | |
| 9/125-OS1 | 9.2 ± 0.4 | 1310 | 0.35 / 0.5 | ≤ 3.5 | | 1.467 | |
| patchcord quality | 125 ± 1 | 1550 | 0.21 / 0.3 | ≤ 18 | ≤ 0.2 | 1.467 | |

A test report (attenuation) is supplied with each delivery.

Mechanical, physical and/or environmental

Temperature range Strippability

Transport/storage -30 to +70 °C Secondary coating only $\leq 100 \text{ cm}$ Installation -5 to +50 °C Secondary + primary coating $\leq 25 \text{ mm}$

Operation - 5 to + 55 °C

Pulling tension ≤ 3 N Crush resistance according to IEC 60794-1-2-E3

Dry semi-tight buffer ≤ 4000 N/m

Bending radii for fibres and tight buffersInstallation/operation
Veight
Energy of flame
0.67 kg/km
19 kJ/m

Guide to installation and handling

- It is vitally important not to exceed the specified values.
- (Semi-)tight buffered optical fibres have been designed for **short distance** (≤ 10 m) applications.

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Dry ST Page 2 of 2 Rev. 12 - 04/16/04

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Dry semi-tight buffered optical fibres



Ordering information

Belden European Part Numbers

| Fibro typo / Cablo typo | 62.5/125- | 50/125- | 50/125- | 50/125- | 9/125- | |
|----------------------------|--|---------|---------|------------------------|---------|--|
| Fibre-type / Cable-type | OM1 | OM2 | OM2e | OM3 | OS1 | |
| Std. colour | blue | green | green | green with black rings | yellow | |
| Pigtails | GIOK101 | GIOK201 | GIOK401 | GIOK301 | GIOK901 | |
| Std. reel (non-returnable) | plastic reel Ø 238 * 107 mm, weight 0.4 kg | | | | | |
| Std. del. length | 2100 ± 100 m | | | | | |