



OF010 and CF120

Optical Fibres for the LD500 System

In the Opsis laser diode gas monitoring system, two sorts of fibre optic cables are included. Inside the LD500 analyser, an OF010 fibre optic cable transfers the light from the internal laser diode to the emitter.

A receiver converts the signal and sends it back via a second fibre optic communication cable – CF120 – to the LD500 analyser.



Technical Specifications – OF010

| | |
|-------------------------|-------------------|
| Cable diameter | 6 mm |
| Weight (Kg/Km) | 30 |
| Tensile load (Kg/Km) | 600 |
| Bending radius (mm) | 60 |
| Ambient temperature | -55°C to +85°C |
| Temperature, inner core | -20°C to +80 °C |
| Termination | FC/APC connectors |

An OF010 includes as standard

Optical fibre
Tight buffer over each fibre up to 900 microns
Aramid strength members
Polyurethane outer jacket

Description and Use

- Extremely strong and lightweight cables for military and tactical applications.
- Designed to use in more adverse environments.
- Can be used in any grounds including harsh environments.
- To use in chemical environments.
- To be installed directly in burial ground.
- Excellent crush-resistance.

Technical Specifications – CF120

| | |
|---|----------------|
| Cable diameter | 7 mm |
| Weight (Kg/Km) | 46 |
| Crush resistance | 2,200 N/cm |
| Minimum bend radius: under installation tensile load (mm) | 105 |
| Minimum bend radius: under installation tensile load (mm) | 70 |
| Operating temperature | -40°C to +85°C |
| Termination | ST connectors |
| Impact resistance | 1,500 impacts |
| Flex resistance | 2,000 cycles |

An CF120 includes as standard

Optical fibre

Options

OPSIS AB CF120 tight-buffer fibre optic cables meet the functional requirements of the following standards:

ANSI X3T9.5 PMD
ATM 155 Mb/s
FDDI 100 Mb/s
Fibre Channel FC-PH
GR-409-CORE
ICEA-83-596
TIA-568
TIA-598-A
TIA-758

UL-listed type OFNR in accordance with NEC sections 770-51 (b) and 770-53 (b) for use in vertical runs in building riser shafts or from floor to floor. Meets or exceeds requirements for intra-building fibre optic cables as outlined in GR-409-CORE.

Specifications subject to change without notice

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