

Optical Fibre Drop Cable (OFDC)

Miniflex Optical Fibre Drop-Cable (OFDC) is a small sized reinforced cable for use in the external, local access infrastructure.

This cable consists of a combination of fibres (with or without water-blocking tapes) such as a blown fibre bundle, a loose tube multi-fibre unit, a small micro-cable or an assembly of 900 micron buffered fibres, sheathed in the Miniflex Optical Fibre Drop Tube (OFDT). The OFDC has a maximum capacity of up to 16 fibres and dry, swell-able, water-blocking cords.

The Miniflex OFDC has an outside diameter of 6mm with 2.7mm inner diameter (see diagram overleaf) and provides a reliable, cost-effective solution for self-supporting aerial, direct buried and FTTH drop installations.

Application

Ideally suited to blowing, pushing and pulling applications, including:

- Suspension from overhead telegraph poles
- Direct burial
- Cable ducts
- Surface-laid troughs
- Track side cable support fencing

Features & Benefits

Performance criteria

A self supporting UV stabilised polymeric sheath of circular cross-section, incorporating integral high tensile steel strength members and a bore suitable for containing the required fibre assembly.

The construction is rated for use in crossing under or over high voltage cables up to 11kV.

The mechanical strength is sufficient to allow span lengths up to 68 metres under the specified environmental conditions.

Cable fibre count / capacity

Can contain from 1 to 16 primary buffered fibres, and dry, swell-able, water blocking cords.

Optical fibre type

Fibre provided in accordance with customer specified requirement. Typically contains primary coated single-mode optical fibre in accordance with ITU-T Recommendation G652. Proof strain is 1% minimum.

Mechanical performance

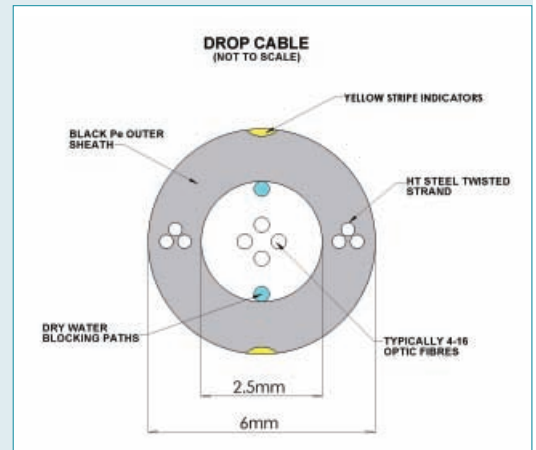
OFDC is a self supporting cable with an ultimate tensile strength, not less than 1350 N and no more than 1550 N.

Installation criteria

For overhead use the OFDC should be attached using a preformed wire spiral anchor. This anchoring system does not tightly bend or restrict the bore of the OFDC in any manner likely to cause any degradation in optical performance of the fibres, even under maximum working tension. For duct use, normal pulling attachments and methods can be used (Maximum Pull Tension 1000N), the same applies to blowing.

Ordering Information

Please contact your nearest Miniflex representative. OFDC is supplied in reel sizes of 300 metres. OFDC specified preformed wire anchor is available on request.



Key Data

Environmental conditions

Temperature range -40°C to +80°C

Maximum wind speed 130 km/hr

Maximum ice loading: 5mm radial

Max combined: 80 km/hr + 5mm radial ice.

Optical Fibre Count

Contains 1 to 16 fibres

OFDC Characteristics

Made from black medium density polyethylene, stabilised against UV degradation.

Marked with two (2) yellow coloured stripes to indicate tube is an optical fibre carrier.

Printed with indelible white traceable batch numbers, and incremental length marking.

Maximum pulling tension 1000N.

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OPTICAL FIBRE PROTECTION SYSTEMS