

Powered Optical Fibre Cable (POFC)

The Miniflex Powered Optical Fibre Cable (POFC) is a small, power carrying cable for use in the external, local access infrastructure. This cable has capacity to feed low voltage current (LVC) to remote fibre optic transceivers, etc.

For optical fibre infrastructure, this cable can be used as general purpose product for direct burial, cable ducts, surface-laid troughs, or track side cable support fencing.

Application

- Direct burial
- Cable ducts
- Surface-laid troughs
- Track side cable support fencing
- Exposed run surface attached

Features & Benefits

Performance criteria

A rugged UV stabilised polymeric sheath cable of circular cross-section, incorporating integral power feed members and a clear bore suitable to contain the required fibre assembly. The construction is suitable for use in crossing under or over high voltage cables up to 11kV.

Installation criteria

For duct use, normal pulling attachments and methods can be used. Maximum pulling tension = 400N (<0.5% Strain). POFC can also be installed using air blown techniques.

Power Connection: A small clip on IDC Terminal will soon be available that allows tapping at any point along the cable. A Drop Cable Stripper enables the power conductors to be separated from the fibre for power connection at the terminal ends of the cable.

Cable fibre count / capacity

Can contain up to 16 primary buffered fibres plus dry, swellable, water blocking yarns.

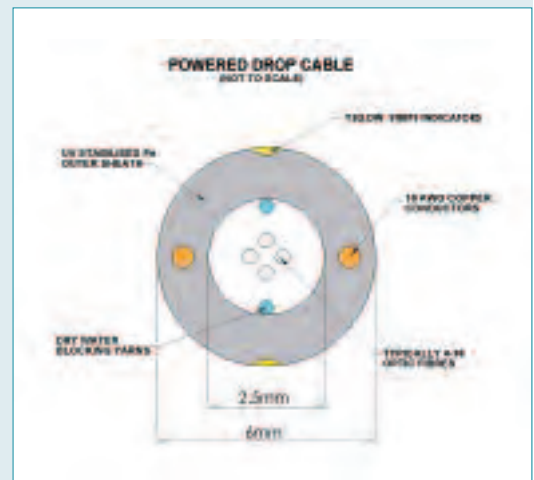
Power Feed - 2 x 19 AWG Copper Conductors

Optical fibre type

Fibre provided in accordance with customer specified requirement.

Ordering Information

POFC are supplied according individual customer requirements so please contact your nearest Miniflex representative to discuss your particular application.



Cable sheath

Black medium density polyethylene, stabilised against UV degradation. Marked with two (2) yellow coloured stripes to indicate cable contains optical fibres. The cable is printed with indelible white traceable batch numbers, fibre content, and incremental distance marking.

Power conductors

The power feed conductors are 19AWG (0.65 square mm) (0.91mm diameter) with a resistance of approximately 0.0264 Ohms/m. If the voltage and current required to run the remote FOT are specified and the maximum voltage available from the power supply is known, it is easy to calculate the maximum useable length of cable from:-
$$L = (V_s - V_c) / I_c \cdot R_c$$

Where V_s = available voltage from supply;
 V_c = required FOT voltage; I_c = required FOT current and R_c = cable resistance per metre, which in this case is 2×0.0264 ohms/m.

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OPTICAL FIBRE PROTECTION SYSTEMS