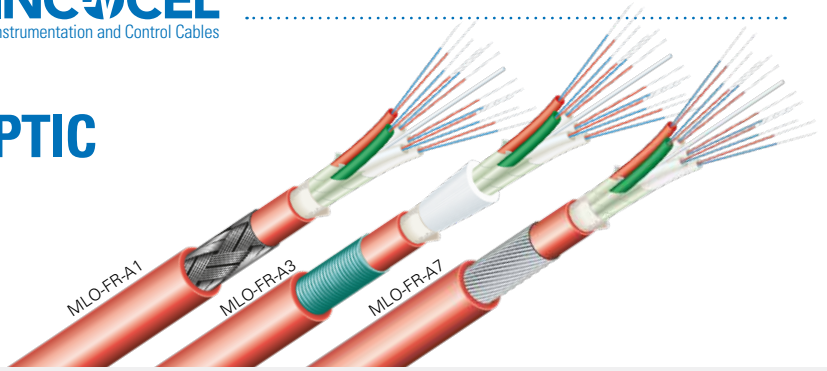


FIRE RESISTANT FIBRE OPTIC CABLES - MLO - FR

Fire Resistant Loose Buffered Cables



MLO-000-**(n)-M1-A1-FR
MLO-000-**(n)-M1-A3-FR
MLO-000-**(n)-M1-A7-FR

APPLICATIONS

Safety Systems, Critical Connections and Fire Fighting Systems
Indoor and outdoor installation.
Tunnels and closed areas in general.

OPERATING TEMPERATURE

-20 °C to +80 °C (for general use); -40 °C to +90 °C (on request).

MINIMUM BENDING RADIUS

20 times overall diameter (dynamic)
10 times overall diameter (static)

CABLE CONSTRUCTION

Fibres Singlemode and multimode fibres, with loose technology coating.

Structure The jelly filled tubes containing the fibres are individually wound with a mica tape and are cabled around a central steel or FRP (fibreglass reinforced plastic) element. When necessary glass yarn is the traction element. A flame resistant tape improves fire resistance.

Inner sheath LSZH (M1).

Armour

- A1 Galvanized steel wire braid
- A3 Corrugated steel tape
- A7 Steel wire armour

Outer sheath LSZH (M1) compound. Other materials (PVC, polyethylene) can be used for special applications (resistance to water, oil, hydrocarbons, UV rays).

APPLICABLE STANDARDS

Optical fibre characteristics IEC 60793-1
Optical fibre cable characteristics IEC 60794-1
Fire retardant IEC 60331-25
Fire retardant IEC 60332-3

Flame retardant IEC 60332-1
Test on gases evolved during combustion IEC 60754-1/2
Low smoke emission IEC 61034-2

Type	Fibre (n° max)	Tube Diameter (mm)	Diameter (mm)	Weight (kg/km)	Tension load (N)	Crush (N/100mm)
A1 Metallic armour						
MLO-000-**(n)-M1-A1-FR	72	2.0	15.0	280	3000	3500
MLO-000-**(n)-M1-A1-FR	96	2.0	17.5	310	3000	3500
MLO-000-**(n)-M1-A1-FR	144	2.0	21.5	350	3500	3500
A3 Metallic armour						
MLO-000-**(n)-M1-A3-FR	72	2.0	14.8	270	3000	5000
MLO-000-**(n)-M1-A3-FR	96	2.0	18.5	350	3000	5000
MLO-000-**(n)-M1-A3-FR	144	2.0	22.5	450	3500	5000
A7 Metallic armour						
MLO-000-**(n)-M1-A7-FR	72	2.0	14.8	270	3000	5000
MLO-000-**(n)-M1-A7-FR	96	2.0	18.5	350	3000	5000
MLO-000-**(n)-M1-A7-FR	144	2.0	22.5	450	3500	5000

approximate values

000 = Type of fibre
** = Number of fibres
(n) = Number of tubes