



# SIGNAMAX MLT Outdoor Fibre Optic Cable

This cable is suitable for outdoor use. The cable has rodent protection.

## SHEATH MARKING

Print colour	white
Print method	INK-JET
Print legend	manufacturer's name, job number, type of cable, length marking @ 1 m intervals

## COLOUR CODE OF TUBES

1st: red, 2nd: green, rest of tubes: white, in the case of lower number of fibres some tubes are replaced by uncoloured fillers.

## FIBRE COLOUR CODE

1 – red	7 – brown
2 – green	8 – violet
3 – blue	9 – turquoise
4 – yellow	10 – black
5 – white	11 – orange
6 – grey	12 – pink

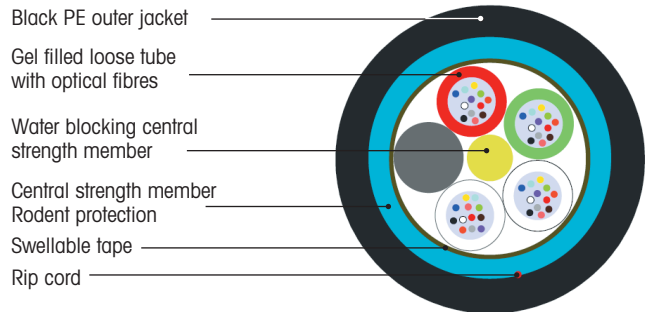
According to IEC 60304.

## FIBRE TYPE

Single mode fiber 9/125  
 Multi mode fiber 50/125  
 Multi mode fiber 62,5/125

## CONSTRUCTION

Loose buffer tube	material PBT, thixotropic gel filled
Fillers	PE natural
Central strength member	water blocking FRP dielectric central strength member (OD 1,6 mm)
Cable core	central strength member + 5 loose tubes (or fillers), fixed by PES yarn, wrapped by swellable tape, fixed by PES yarn
Strength member	water blocking E-glass
RIP-cord	1x under outer jacket
Outer jacket	PE – black, UV stable
Flammability	EN 50266-1, EN 50266-2-2
Acid gases	ČSN EN 50267-1, ČSN EN 50267-2-2, EN 50267-2-3
Smoke density	ČSN EN 61034-1 a ČSN EN 61034-2
Cable life time	minimum 30 years



## MECHANICAL AND ENVIRONMENTAL PROPERTIES

Max. tensile strength (installation)	*E1A	1 500 N
Crush resistance	*E3	1 000 N/10 cm
Impact resistance	*E4	3 impacts (w/8 N.m)
Min. bend radius (long term)	*E11A	15x cable diameter (no load)
Min. bend radius (short term)	*E11B	20x cable diameter (load)
Repeat bending	*E6	500 cycles (250 mm/2 kg)
Kink	*E10	40 mm
Torsion	*E7	10 cycles ±180°, 45 cm/2 kg 5 cycles ±360°, 45 cm/2 kg
Moisture resistance	*F5	passed
Temperature range	*F1	installation: -5 °C to +50 °C operation: -30 °C to +60 °C storage: -30 °C to +60 °C
Cable informative nominal weight (calc.)		104 kg/km
Standard put-up length		2 100 m, 4 100 m
Drum size (plywood)		120x64x60 cm 140x64x60 cm
Loose tube nominal diameter		2,1 ±0,1 mm
Outer jacket nominal thickness		1,8 (min. 1,5) mm
Cable nominal outer diameter (calc.)		10,5 ±0,3 mm

\* IEC 60794-1-2

