



SIGNAMAX MLT Armored Fiber Optic Cable

This cable is suitable for indoor or outdoor use. The cable has full rodent protection, direct burial possible.

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.

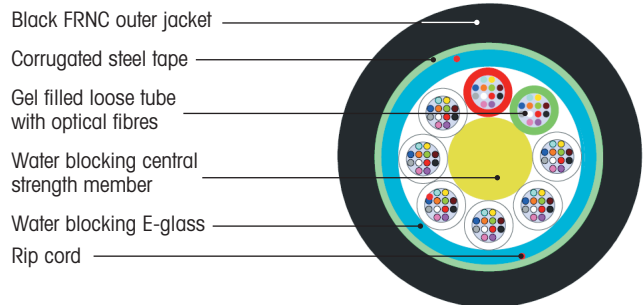
FIBRE TYPE

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 3,0 mm), coated by PE (OD 5,2 mm)
Cable core	central strength member + 8 loose tubes (or fillers), fixed by PES yarn
Strength member	water blocking E-glass
RIP-cord	2x under outer jacket
Armouring	corrugated steel tape
Outer jacket	FRNC – 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	2 000 N/10 cm
Impact resistance	*E4	3 impacts (w/20 N.m)
Min. bend radius (long term)	*E11A	15x cable diameter (no load)
Min. bend radius (short term)	*E11B	25x cable diameter (load)
Repeat bending	*E6	2 000 cycles (100 mm/5 kg)
Kink	*E10	60 mm
Torsion	*E7	10 cycles ±180°, 60 cm/5 kg 5 cycles ±360°, 60 cm/5 kg
Moisture resistance	*F5	passed
Temperature range	*F1	installation: -5 °C to +40 °C operation: -40 °C to +70 °C storage: -40 °C to +70 °C
Cable informative nominal weight (calc.)		213 kg/km
Standard put-up length		2 100 m, 4 100 m
Drum size (plywood)		140x64x80 cm 160x71x90 cm
Loose tube nominal diameter		1,5 ±0,1 mm
Outer jacket nominal thickness		1,8 (min. 1,5) mm
Cable nominal outer diameter (calc.)		14,1 ±0,3 mm

* IEC 60794-1-2

