



# SIGNAMAX Micro Fibre Optic Cable

This cable is suitable for FTtx and Air-Blown into Micro Ducts.

## SHEAT 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.

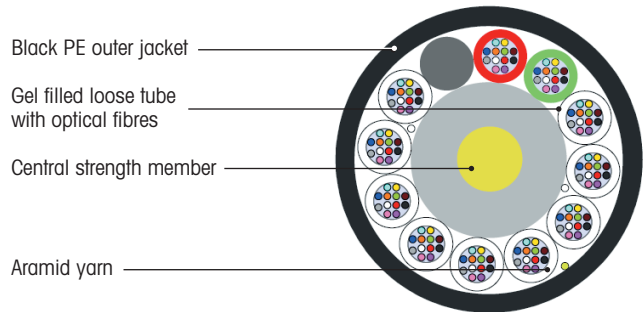
## FIBRE TYPE

### 9-125

SMF ITU-T G.657.A (AllWave-Flex)  
 SMF ITU-T G.657.B3 (AllWave-Flex)  
 SMF ITU-T G.655 C&D (TrueWave RS)  
 SMF ITU-T G.655.C&E G.656 (TrueWave Reach)  
 SMF ITU-T G.652.D (LWP)  
 SMF ITU-T G.652.D (AllWave)

## CONSTRUCTION

|                         |  |
|-------------------------|--|
| Loose buffer tube       | material PBT, thixotropic gel filled   |
| Fillers                 | PBTF natural   |
| Central strength member | water blocking FRP dielectric central strength member (OD 2,0 mm), PE coated (OD 4,5 mm) |
| Cable core              | central strength member + 12 loose tubes (or fillers)                                    |
| RIP-cord                | 1x under outer jacket  |
| Outer jacket            | HDPE – 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  | 900 N   |
| Crush resistance                         | *E3   | 1 500 N/10 cm   |
| Impact resistance                        | *E4   | 3 impacts (w/10 N.m)  |
| Min. bend radius (long term)             | *E11A | 70 mm (no load)   |
| Min. bend radius (short term)            | *E11B | 60 mm (load)  |
| Repeat bending                           | *E6   | 500 cycles (50 mm/1 kg)   |
| Kink                                     | *E10  | 50 mm   |
| Cable stiffness                          | *E17  | 0,02149 Nm2   |
| Torsion                                  | *E7   | 10 cycles ±180°, 50 cm/5 kg<br>10 cycles ±360°, 50 cm/5 kg<br>10 cycles ±720°, 50 cm/5 kg |
| Moisture resistance                      | *F5   | passed  |
| Compound flow                            | *E14  | 30 cm / 24h/70 °C passed  |
| Temperature range                        | *F1   | installation -5 °C to +50 °C<br>operation -25 °C to +70 °C<br>storage -25 °C to +70 °C    |
| Cable informative nominal weight (calc.) |       | 61 kg/km  |
| Standard put-up length                   |       | 2 100 m, 4 100 m  |
| Drum size (plywood)                      |       | 100×64×60 cm<br>100×64×60 cm  |
| Loose tube nominal diameter              |       | 1,55 ±0,05 mm   |
| Outer jacket nominal thickness           |       | 0,5 (min. 0,4) mm   |
| Cable nominal outer diameter (calc.)     |       | 8,6 mm  |
| Cable maximal outer diameter (calc.)     |       | 9,0 mm  |

\* IEC 60794-1-2

