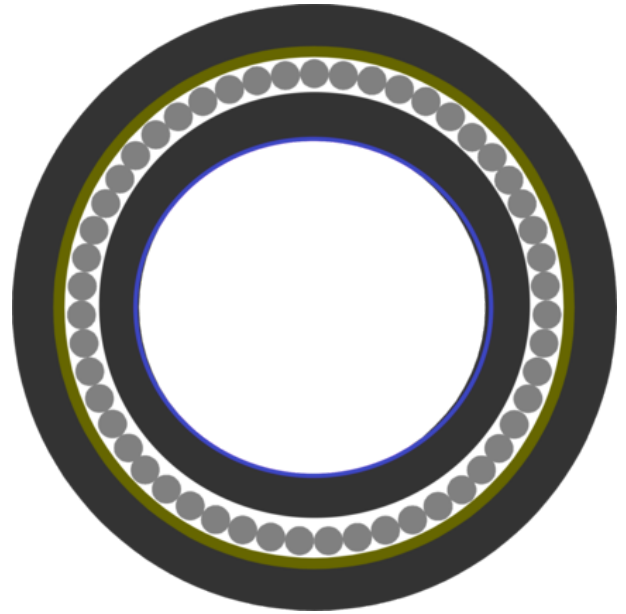


<b>Product name</b>	Microduct UWS 1x14/12mm BLACK HDPE OD 23.8mm 2000m/dr.
<b>Product code</b>	88028014
<b>Product type</b>	Z410
<b>GTIN</b>	7332811362187
<b>ETIM-Class</b>	EC001474



## PRODUCT SPECIFICATIONS

Microducts are designed for long term protection of fiber optical cables and are especially suitable for installation of micro cables. The underwater armored microducts are suitable for under water installation like lakes and river crossings. It attains its mechanical robustness and functional performance through its steel wire armour (SWA) reinforcement. Needs no further protection at under water or underground installations. The primary duct are made of high-density virgin polyethylene (HDPE). Every microduct has a permanent, co-extruded silicone compound inner liner giving a coefficient of friction of less than 0,1.

## Measurements

<b>Length</b>	1 000 mm
<b>Height</b>	23,8 mm
<b>Width</b>	23,8 mm
<b>Weight</b>	714 g

## Technical Specifications - Single Ducts

<b>Duct Type</b>	14/12
<b>Duct Colour</b>	Blue
<b>Outer Diameter</b>	14 mm
<b>Outer Diameter Tolerance</b>	+/- 0.1 mm
<b>Inner Diameter</b>	12 mm
<b>Inner Diameter Tolerance</b>	+/- 0.1 mm

Min Bending Radius	140 mm
Max Install Tensile Force	450 N
Inner clearance test (of ID)	85 %
Weight	43 kg/km
Outer/inner surface quality (PN 64-004-99)	Without Deformation
Longitudinal reversion (EN ISO 2505)	max 3%
Blowing pressure	16 Bar

## Technical Specifications - Bundle

Bundle Type	1-way
Tube Colour Sequence	EIA/TIA-598A
Sheath Colour (Bundle)	Black
Sheath Thickness	1,5 mm
Bundle Dimensions	23,8 +/- 0.4 mm
Min Bending Radius (Bundle)	605 mm
Max Install Tensile Force (Bundle)	18 000 N
weight	725 kg/km
Water Depth	60 m
Reinforcement	steel wire armouring (fezn wire od 1,25 mm)

## Mechanical Characteristics

Temperature ranges for installation	-10°C - +40°C
Temperature ranges for Operation	-30°C - +55°C
Temperature ranges for transport and storage	-40°C - +55°C
Pressure Withstand (EN 1167-1,2)	resistance to internal pressure (23°C, 2 h, 16 bar))
Tensile performance (IEC 60794-1-21, Method E1)	18 kN
Crush (IEC 60794-1-21, Method E3A)	3 kN
Impact (IEC 60794-1-21, Method E4)	20 J
Coefficient of Friction (IEC 62470)	Tension around a curve 1040mm with result of a CoF less than 0,1