Product name	Microduct UWS 1×12/10mm BLACK HDPE OD 21.3mm 2000m/dr.
Product code	88028012
GTIN	7332811362170
ETIM-Class	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

Length	1,000 mm
Height	21.3 mm
Width	21.3 mm
Weight	557 g

Technical Specifications - Single Ducts

Duct Type	12/10
Duct Colour	Blue
Outer Diameter	12 mm
Outer Diameter Tolerance	+/- 0.1 mm
Inner Diameter	10 mm
Inner Diameter Tolerance	+/- 0.1 mm
Min Bending Radius	150 mm

Max Install Tensile Force	450 N
Inner clearance test (of ID)	85 %
Weight	37 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 Thickness	1.5 mm
Bundle Dimensions	21.3 +/- 0.4 mm
Min Bending Radious (Bundle)	545 mm
Max Install Tensile Force (Bundle)	11,000 N
weight	564 kg/km
Water Depth	50 m
Reinforcement	steel wire armouring (fezn wire od 1,0 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)	11 kN
Crush (IEC 60794-1-21, Method E3A)	3 kN
Impact (IEC 60794-1-21, Method E4)	10 J