



FIBER OPTIC CABLE

## TIGHT BUFFER EXTRUSION LINE OFC 42

For Tight Buffer, Semi Tight Buffer and Micro Sheat Extrusion

# SINGLE AND DUAL LAYER TIGHT BUFFER



The Tight Buffer Extrusion Line OFC 42 is designed to cover the production of **single as well as dual layer tight buffers**.

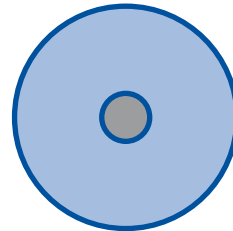
The line supports compounds like **PA12, PE, PVC, PDFE (FEP), and UV curable acrylates**.

The modular line component concept allows the production of the buffers for a variety of different kind of fiber **optical indoor cable designs**.

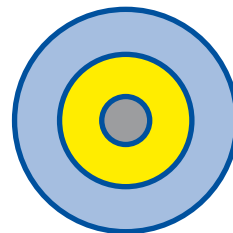
A big variety of optimized pay-off and take-up systems for the next generation of fiber optical cable manufacturing permit **highest flexibility of the production lines**.

**Easy adaptability** from our equipment to your products enables to meet today's and tomorrow's market requirements.

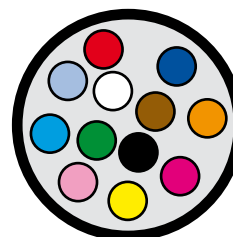
## TYPICAL PRODUCT DESIGN



Tight Buffer



Semi Tight Buffer



Micro Sheath

## ADEQUATE MACHINE PORTFOLIO



FUS can be installed in line with the tight buffering line. The fiber can be up-coated with a UV-curable acrylate or a silicon layer before the buffering process. The diameter of the acrylate layer is 400-500 $\mu$ m.

The intermediate layer gives easier stripability and extra protection in harsh environment.

FUS can be also used in line with the premises cable jacketing line. The fiber is up-coated directly to 900 $\mu$ m. This makes it possible to run simplex in one process.

Innovative spray cooling trough utilizes very small water drops. This maximizes the cooling capacity and reduces the line tension.

The drop size in water spray is only 50 $\mu$ m. This makes the surface area very big, thus the cooling is more efficient.

Small water drops are easier to remove from the surface of the tight buffer. This simplifies the drying process compared to a conventional cooling bath. Efficient cooling reduces the number of fals lump alarms.

Fiber Up-coating system, FUS



The dual take-up is specially designed for tight buffer winding. It gives accurate tension control and precise traversing.

The integrated capstan saves line length.

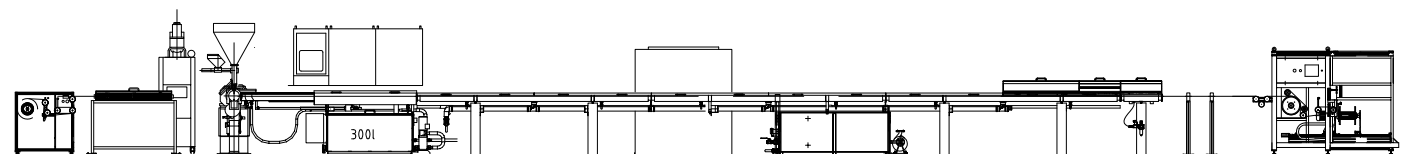


# PROCESSING DATA

PROCESSING DATA	Tight Buffer*	Semi Tight Buffer*	Micro Sheat*
Structural Speed	750 m/min	750 m/min	300 m/min
Fiber Count	1	1	1
Diameter Range	0.6 - 0.9 mm	0.9 mm	1.2 - 1.8 mm
Extrusion Material	PA12, PE, PVC	Acrylate, PA12, FEP	PE, etc.
Layers	1	2	1 / 2

\* Other product dimensions are available on request

LINE FUNCTION	LINE COMPONENT
Pay-Off	KAP, NMH
Fiber Preheater	NFP 1400
Extruder	ROEX 30 / 45
Master Batch Dosing	PC
Desiccant Dry Loader	DDM 60
Vacuum Hopper Loader	PGT 4
Crosshead	NXH 4 / 6
Cooling Section	CS 15
Quality Control	Diameter, Lump
Capstan	Integrated in Take-Up
Take-Up	NDT 450
Line Control System	NOMOS PSU



Preform Technology • Fiber Drawing • UV-Coating • Fiber Optic Cable

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