

# Cable Products

## Waterblocking yarns

### DATA SHEET

### 3SY / 3WY

Properties <sup>1)</sup> (23°C, 50% RH)	Unit	3SY008	3SY011	3SY020	3SY030	3WY017	3WY025 <sup>2)</sup>	3WY055 <sup>2)</sup>
Diameter (dry):	mm	0.4	0.6	1.0	1.5	1.5	2.0	2.5
Diameter (wet): . calculated	mm	1.5	1.7	3.5	4.0	5.0	6.0	7.5
Weight (dry): . mass per unit length	g/m	0.09	0.12	0.22	0.33	0.5	1	2
. mass per 9,000 m	denier	850	1100	2000	3000	4500	9000	18000
. mass per 10,000 m	dtex	945	1222	2222	3333	5000	10000	20000
. length per unit wt.	km/kg	10.6	8.2	4.5	3	2	1	0.5
Weight (wet):	<b>final in 30 seconds</b>							
. water absorbency	g/m	> 2.7	> 3	> 6.6	> 9.9	> 15	> 35	> 60
. water absorbency	g/g	> 30	> 25	> 30	> 30	> 30	> 35	> 30
Tensile strength	N	> 9	> 15	> 20	> 40	> 40	> 78	> 90
Elongation	%	> 17	> 15	> 20	> 20	> 15	> 17	> 20
Max. service temp.	°C	100						
Max. processing temp.	°C	200						
Composition		Polyester, Superabsorbent Polymer						

<sup>1)</sup> This data represents **nominal** values and should not be considered to be a specification, except for the > data, which are minimum averages of 1 m samples from a specified number of cones.

Used in communications cables, as the alternative to jelly (filling and/or flooding):

- \* copper cables: . in each quad in a dry core design
- \* fibre optic cables: . over the central strength element  
. over the central tube  
. between loose tubes

Used in power cables for conductor waterblocking and for waterblocking of LV-cables.

Delivery form:

Lantor® Waterblocking Yarns are delivered on	cones	<sup>2)</sup> tubes
Weight	65 g	75 g
Yarn weight	3.7 kg	5.8 kg
Length	230 mm	290 mm
Traverse	200 mm	260 mm
Wall thickness	2 mm	3 mm
Inner diameter (base/top)	72/33 mm	54 mm
Vertical angle	3.30 °	n.a.

This information is presented in good faith but is not warranted as to the accuracy of the results.

Also, freedom from patent infringement is not inferred.

This information is offered solely for your investigation, verification and consideration.