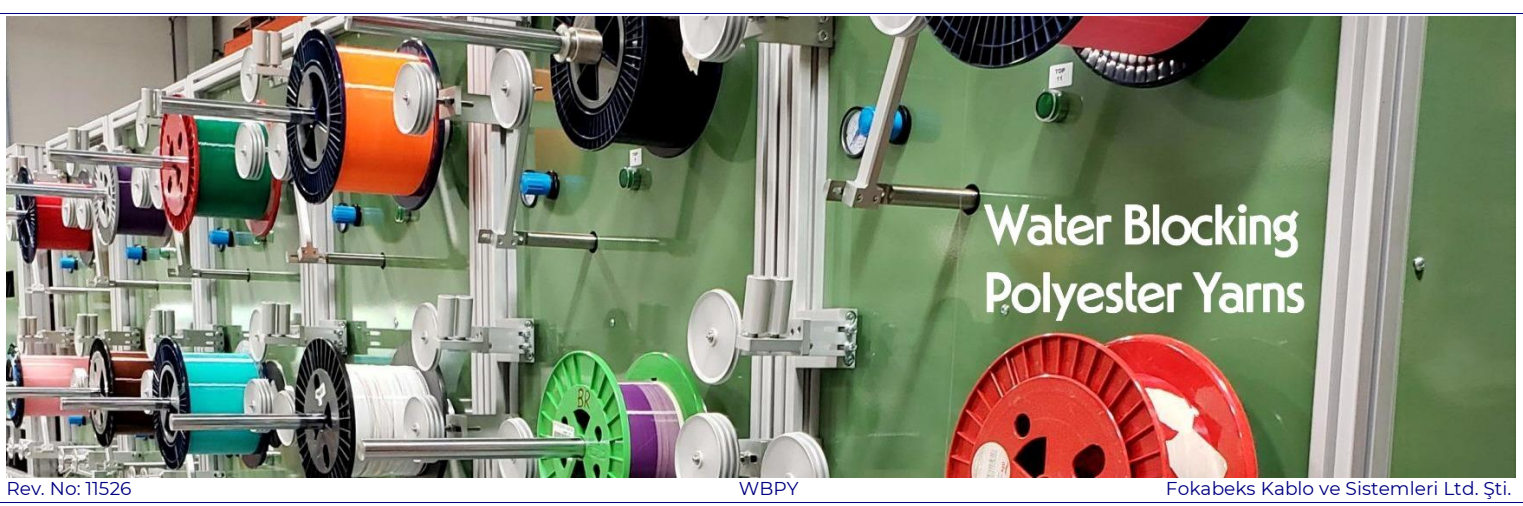




'where
fiber optic happens'

TECHNICAL DATASHEET

Product	Water Blocking Polyester Yarn
Product PN	FX WBPY 2000/ 2500 DTEX
Material	Made from high tenacity, low dusting continuous multifilament polyester yarns with soft & smooth surface. Coated with SAP particles supplies high & quick water absorption with unique swelling properties. Flat form. Untwisted, no harmful to humans, nonconductive & nonwoven product. Natural color.
Features & Benefits	Ideal multi- purpose product to use as water blocking filler yarn in any layer of dry optical fiber cables such as over FRP/ water swellable tape & under jacket or metallic armour. Suitable to prevent water penetration and migration to avoid the entrance of water. Helical and/or longitudinal use is possible.

Typical Specs

Properties (@T = 23°C & RH = 50%)	Unit	Test Standard	WBPY 2000 DTEX	WBPY 2500 DTEX
Linear Density (g/10000 mt)	Dtex	ASTM D 1907	2000 +/- 200	2500 +/- 200
Tensile Strength	N	ASTM D 885	≥ 70	≥ 80
Elongation at Break	%	ASTM D 885	≥ 12	≥ 12
Water Absorption Capacity	g/g	¹	≥ 45	≥ 60
Linear Water Absorption Capacity	g/mt	¹	≥ 9	≥ 15
Weight	mt/kg	-	5000 +/- %7	4000 +/- %7

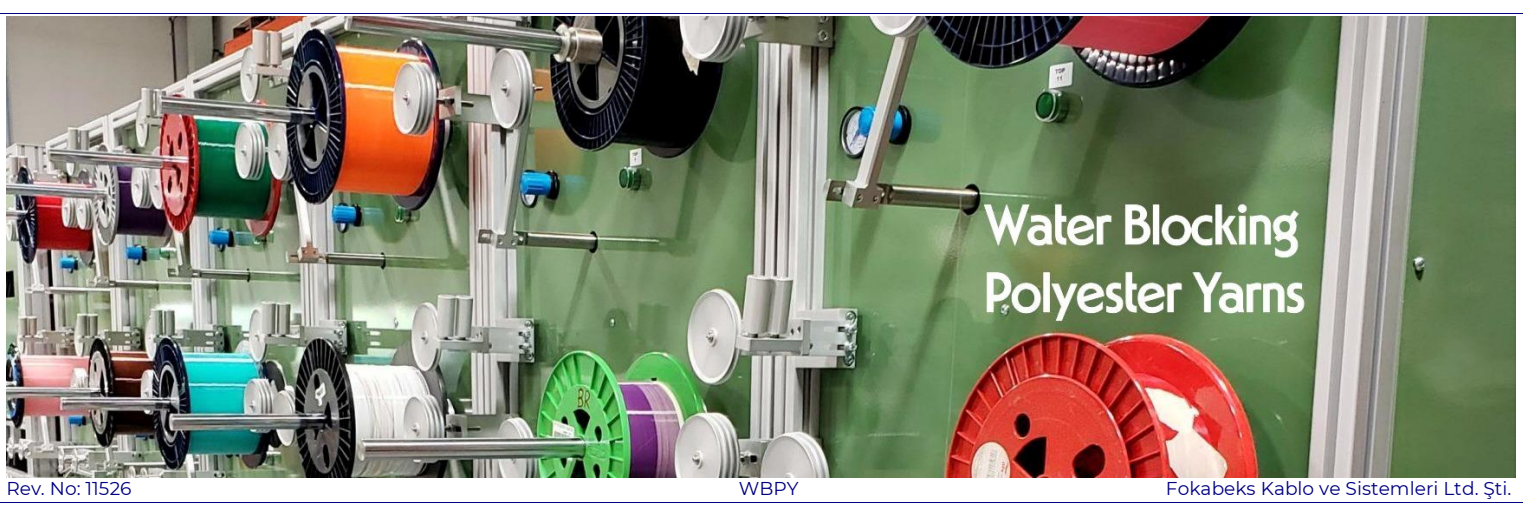
¹Sample length: 1 mt, number of samples 5, submerge time: 2 min. in 0,5 l of deionized water; weigh mass before submerge; holds end of thread with tweezers and submerge in the beaker with deionized water, after 2 minutes remove the sample from beaker very gently without touching anything; hold sample vertically for 1 minutes to drip (hold it with tweezers above the beaker) and after weigh sample again; result of water absorption: (G2 - G1)/(G1)*100%, where G1-thread weight before water absorption and G2- thread weight after water absorption.

Packaging Yarn is precision, flawless & consistent wound to strong & thick cylindrical cardboard tubes.

Standart Bobbin Dimensions *

OD (mm)	210 to 225
L (mm)	220 to 270
T (mm)	200 to 250
ID (mm)	94 & 127

* Custom design bobbin dimensions & slitted cardboard tubes available upon request. Maximum one splice is allowed per bobbin with minimum % 90 tensile strength of unspliced yarn.



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TECHNICAL DATASHEET

Product	Water Blocking Polyester Yarn
Product PN	FX WBPY 600 DTEX
Material	Made from high tenacity, low dusting continuous multifilament polyester yarns with soft & smooth surface. Coated with SAP particles supplies high & quick water absorption with unique swelling properties. Flat form. Untwisted, no harmful to humans, nonconductive & nonwoven product. Natural color.
Features & Benefits	Ideal multi- purpose product to use as water blocking filler yarn in any layer of dry optical fiber cables such as over FRP/ water swellable tape & under jacket or metallic armour. Suitable to prevent water penetration and migration to avoid the entrance of water. Also can be used in place of gel inside buffer tubes to achieve dry/dry fiber optic cable structure. Helical and/or longitudinal use is possible.

Typical Specs

Properties (@T = 23°C & RH = 50%)	Unit	Test Standard	WBPY 600 DTEX
Linear Density (g/10000 mt)	Dtex	ASTM D 1907	600 +/- 10
Tensile Strength	N	ASTM D 885	≥ 15
Elongation at Break	%	ASTM D 885	≥ 12
Water Absorption Capacity	g/g	1	≥ 40
Linear Water Absorption Capacity	g/mt	1	≥ 2,5
Weight	mt/kg	-	16000 +/- %10
Yarn Dimensions (Average)	mm	-	Width 0.45 +/- 0.15 Thickness 0.15 +/- 0.05

¹ Sample length: 1 mt, number of samples 5, submerge time: 2 min. in 0,5 l of deionized water; weigh mass before submerge; holds end of thread with tweezers and submerge in the beaker with deionized water, after 2 minutes remove the sample from beaker very gently without touching anything; hold sample vertically for 1 minutes to drip (hold it with tweezers above the beaker) and after weigh sample again; result of water absorption: $(G2 - G1)/(G1) \times 100\%$, where G1-thread weight before water absorption and G2- thread weight after water absorption.

Packaging Yarn is precision, flawless & consistent wound to strong & thick cylindrical cardboard tubes.

Standart Bobbin Dimensions *

OD (mm)	210 to 225
L (mm)	220 to 270
T (mm)	200 to 250
ID (mm)	94 & 127

* Custom design bobbin dimensions & slitted cardboard tubes available upon request. Maximum one splice is allowed per bobbin with minimum % 90 tensile strength of unspliced yarn.