



Fil-Tec announces an alternative solution to the Filled Strand Process in the manufacturing of Power Cables:

Typically when power cables need to be water blocked the manufacturer uses a petroleum based gel or tar like material or applies a powder SAP electrostatically. Both options cause significant concerns due to the messy nature of both materials.

Fil-Tec solution is F-Block®.

F-Block® is water swellable polyester yarn; the SAP is applied to the polyester yarn, made to our specified construction, in our proprietary process. The result is a yarn that works very well as a binder as well as filler.

The advantages and benefits of using F-Block® are:

Virtual elimination of dust

Safer work environment. Typical application of SAP powder directly onto the cable produces high levels of dust even with the use of dust capturing equipment. This dust is a health concern for the operator and can affect the performance of other equipment in the production area.

Reduction of waste

Collected SAP powder cannot be recycled in the process, it must be disposed of. Using F-Block® yarn eliminates the handling and cost of disposal of this waste SAP powder.

Higher efficiency

Improved cable output. Higher line speeds by using F-Block® yarn and less down time due to clean up of SAP powder.

Cables made using F-Block® water swellable yarn passed the 15 minutes and 1 hour water penetration tests. They additionally passed connector testing and long term aging test (500 cycles).

Product Specifications - Dry Core Yarn Solutions for Power Cable Applications

Product	Nominal Yield		Break Strength		Absorption Capacity X	Absorption Per Meter*
	Yd/Lb	M/Kg	Lb	Kg		
M570-100+	412	830	116.4	52.8	100+	125 g
M570-65	471	950	101.5	46	65	68.5 g
M570-40	669	1,348	97.7	44.3	40	28.2 g
M270-65	1,023	2,062	49.8	22.6	65	32 g
M220-20	1,522	3,066	49.5	22.5	20	6.5 g
M100-65	2,571	5,180	9.8	4.4	65	13.7g