Co-funded by the European Uni	Yarns (3 A)   Spun Yarns   on		unded by Suropean Unic	Yarns (3 B) Monofilament Yarns
			C	
Definition	A staple fibre yarn is formed by twisting short (staple) fibres into a yarn. The fibres remain together as a yarn composite due to static friction.	Defin	ition	A monofilament yarn consists of a single (=mono) continuous fibre and is spun from a single spinneret.
Material	Staple fibres include all natural fibres with the exception of reel silk, the only natural continuous filament, as well as torn and cut man-made fibres. These can also be spun into staple fibre yarns if they have been shortened to a predetermined length.	Mate	erial	Exclusively man-made fibres belong to the monofilament yarns.
Features	Staple fibre yarns have very different properties, which depend on the fibre materials, the yarn structure and the spinning process. The orientation, arrangement and length of the fibres are decisive for the subsequent yarn properties, as are the number of fibres in the yarn cross-section, their degree of bonding and the twist.	Feat	ures	Monofilament yarns are fine, transparent, and widely used for embroidering sequins or beads. They are also tear-resistant, making them suitable for basting threads. Polyamide monofilaments, known for their strength, are commonly used in fishing lines and kite strings. The characteristics of monofilaments, including cross-section, length, and raw materials, vary based on the application and spinning process. Monofilaments can have round, triangular or hollow structures, with the melt-spinning process being frequently employed for polyester and polyamide monofilaments.
?!	Did you know that spinning fibres into yarns is, along with weaving, one of man's oldest cultural techniques?	?		Did you know that silkworms and spiders have been the natural models for spinning monofilaments because they spin very long, fine and stable threads?

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## Yarns (3 C) Multifilament Yarns



## Yarns (3 D)

Assembled Yarns









## Definition

A plied yarn consists of at least two yarns, which are not twisted together (twisted), but led parallel.

Material

With plied yarn, different yarn qualities and colours can be freely combined with each other. They are mainly used for handicrafts such as knitting. Folded yarns are also called fancy yarns if they consist of different single yarns with special properties, which leads to optical effects. These can be colour and shape effects. Staple fibre yarns and filaments can also be combined to form fanned yarns.

## Features

The properties of a plied yarn depend on the particular combination of individual yarns used. Predominantly they are needlework yarns.



Did you know that you can also make your own plied yarn by joining at least two yarns together in parallel?

















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