

# Round points / Needles for stitching textiles

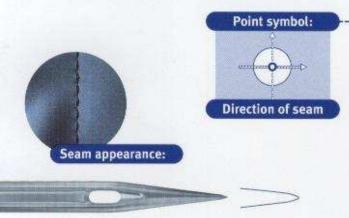
# Point symbol: Direction of seam Seam appearance:

#### Product:

Point with a slim, conical shape The normal round point is the standard point form. No point supplement "R" is used in the system code.

#### Applications:

Light woven fabrics
Thin, coated materials
Laminated materials with soft
plastic or thin cardboard
Manufacture of fur garments
and skins
Films
Leather/textile combinations



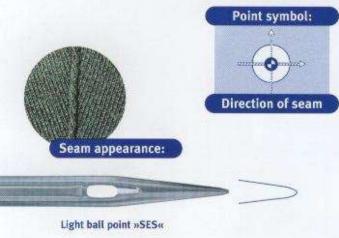
Acute round point »SPI«

#### Product:

Needle with very slim, acute point Accurate piercing of densely woven and coated materials Exact seam appearance Avoidance of seam puckering

#### Applications:

Very densely woven materials, e.g. microfabrics, silk
Coated materials, heavy woven materials, e.g. tent awnings
Thin, smooth materials, e.g. taft
Normal seams in shirt stitching (shirt collars, cuffs)
Non-covered elastomeric threads



#### Product:

The light ball point displaces woven and knitted threads, directly piercing the spaces and avoiding damage to the material.

#### Applications:

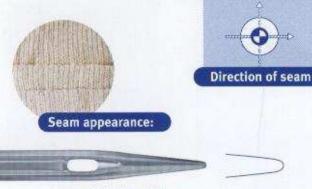
Fine to medium knitwear
Fine and heavy denim materials
Light, densely woven materials
Medium to heavy woven fabric
Laminated materials (textile/textile)

#### Highlight:

Particularly suitable for jersey and sports vests



# Round points / Needles for stitching textiles



Medium ball point »SUK«

# Product:

Point symbol:

Needle with medium ball point (more rounded than the SES light ball point)

#### Applications:

Medium to coarse denim materials Coarse knitwear Manufacture of corsetry

#### Highlights:

Best needle for stone-washed and sand-washed denim grades (particularly in thick needle sizes)

Best needle for the manufacture of corsetry (particularly in thin needle sizes)



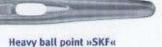


#### Product:

Needle with heavy ball point
This extremely rounded ball form
permits punctiform displacement
with coarse, wide loops, without
piercing the material threads.

#### **Applications:**

Fine elastic materials with covered elastomeric threads Very coarse knitwear



# Point symbol:

Direction of seam

#### **Product:**

Needle with very wide, highly rounded point

This combination achieves piercing of woven and knitted fabrics at specific points by means of the greatest possible displacement of the individual threads.

#### Applications:

Medium to coarse elastic materials with covered elastomeric threads Coarse knitwear

#### Hihglight:

The best point form for sewing Lycra



Special ball point »SKL«

Seam appearance:



Material		Needle Size		Point form			
F380000		PEM	NM SIZE				
Woven fabric	Light (Shirt/blouse material)	65-75	9-11	R			
A CONTRACTOR OF THE CONTRACTOR	Medium (Suit material)	80-90	12-14	SES			
	Heavy (Coat material, covering material)	100-110	16-18	SES			
Denim	Light	70-90	10-14	SES			
	Medium	100-110	16-18	SUK			
	Heavy	110-140	18-22	SES			
Very der	nsely woven materials						
	Light (e.g. microfibres, silk, artificial silk)	65-70	9-10	SES	to prevent material damage		
		65-70	9-10	SPI	to prevent seam puckering		
	Medium (e.g. tarpaulins)	100-180	16-24	SPI			
	Heavy	200-330	25-30	SPI			
Knitwear	Fine	60	8	SUK			
ATTEN CO.	Medium	65-75	9-11	SES			
	Coarse	75-90	11-14	SUK			
	Very coarse	75-90	11-14	SKF			
Elastic materials E.g. higi	i nly elastic knitted fabrics and knitted fabrics						
The second secon	vered elastomeric threads (Elastan, Lycra etc.						
3500000000	Fine	65-70	9-10	SKF			
	Medium (particularly bandages)	80-90	12-14	SKL			
	Coarse	80-90	12-14	SKL			
Non-covered elastomeric threads							
(e.g. elastic for waistbands)		65-90	9-14	SPI	to prevent the elastomeric threads being pushed out		
Composite mater	rials fabrics/knitwear combined with an inlay						
	(e.g. shirt manufacture [seams for cuffs, collars]), materials combined with	65-80	9-12	SPI			
coatea	woven fabrics/knitwear (e.g. Goretex, Sympatex, Helsapor)						
	Fine	65-70	9-10	SPI			
	Medium	80-90	12-14	5PI			
	Coarse	80-90	12-14	SPI			
Laminated mate							
Textile/			40.45				
	seat covers, wetsuits and diving suits) cardboard, textile/plastic,	80-110	12-18	SES			
	d cardboard/plastic						
	seat tracks)	100-140	16-22	R			
24 E		100-140	16-22	SD1	for safety and reliable locking		
		80-130	12-21	DH	for an attractive seam		
Coated	materials (e.g. tarpaulins)						
	Medium	100-180	16-24	SPI			
	Heavy	200-330	25-30	SPI			
		200-330	25-30	SD1			
Films		65-90	9-14	R			
Material combin	ations						
	with textile	80-100	12-16	R			
Manufacture of f	ive and chine	80-100	12-16	R			
manulacture of f	uio anu okilio	90-100	12-10	K			



### The right needle size:

In addition to material and material properties, the choice of thread also determines the right needle size:

Thread type	Polyamide 6.6 (Nylon)				Polyester				
	Yarn size		Needle size		Yarn size		Needle size		
	No*	tex*	NM	SIZE	No*	tex*	NM.	SIZE	
Coarse	13	231	160-200	23-25	13	231	130-160	21-23	
					14	214	130-140	21-22	
	15	200	160-180	23-24	15	200	120-140	19-22	
					18	167	120-130	19-21	
	20	150	120-160	19-23	20	150	110-130	18-21	
					24/25125/120		110-130	18-21	
	30	100	100-140	16-22	30	100	110-120	18-15	
					35/36	86/83	100-110	16-18	
Medium	40	75	90-120	14-19	40	75	90-100	14-16	
					50	60	80-90	12-14	
	60/70	50/43	80-100	12-16	60/70	50/43	70-80	10-12	
	80	38	70-90	10-14	80	38	65-80	9-17	
	90	33	65-90	9-14	90	33	60-80	8-12	
Fine					100	30			
	120	25	70-80	10-12	120	25	60-80	8-17	
	180	17	70-80	10-12	180	17	65-70	9-10	
					200	15	60-65	8-5	
					250	12	55-60	6.9	
					360	8	50-55	5-6	

## SCHMETZ Tip:

These tables only include the most common threads. Cotton threads, sewing silk and embroidery yarn have been omitted for the sake of clarity. If you have specific questions concerning these threads, please ask your thread manufacturer.

				ore spun						
Thread type	Polye	Polyester/Cotton				Polyester/Polyester				
	Y	Yarn size		Needle size		Yarn size		Needle size		
	No*	tex*	NM	SIZE	No*	tex*	NM	SIZI		
Coarse	15	200	140-160	22-23						
	20	150	130-160	21-23	20	150	120-140	19-2		
	24	125	130-160	21-23	25	120	110-130	18-2		
	25	120	130-160	21-23						
	28	107	130-160	21-23						
	30	100	120-140	19-22	30	100	110-130	18-2		
	35/36	86/83	110-130	18-21	35/36	86/83	110-120	18-1		
Medium	40	75	100-120	16-19	40	75	90-110	14-1		
	50	60	100-120	16-19	50	60	90-100	14-1		
	60	50	100-110	16-18	60/70	50	90-100	14-1		
	75	40	90-100	14-16	80	40	70-90	10-1		
	80/90	38/33	80-90	12-14	90	38/33	65-80	9-1		
Fine	100	30	70-90	10-14	100	30	70-80	10-1		
	120	25	70-80	10-12	120	25	70-80	10-1		
					140	21	60-70	8-1		
	150/160	20/19	65-70	9-10	150/160	20/19	50-60	5.		
	180	17	50-65	5.9	180	17	50-60	5		



<sup>\*</sup> No = Label number

tex = Unit of size 1 g/1000 m (e.g. 17 tex = 1000 m yarn weigh 17 g)