







Round points - Needles for stitching textiles

Normal round point "R"



Product:

Point with a slim, conical shape

The normal round point is the standard point shape. No point supplement "R" is used in the system code.

Point symbol: Seam appearance:



Threading direction



Applications:

- Light woven fabrics
- Coated materials, heavy woven materials, e.g. tent awnings
- Laminated materials with soft plastic or thin cardboard
- 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

Minimization of seam puckering

Point symbol: Seam appearance:





Applications:

- Very densely woven materials, e.g. microfabrics, silk
- Thin, coated materials
- Thin, smooth materials, e.g. taffeta
- Topstitch seams in shirt stitching (shirt collars, cuffs)
- Non-covered elastomeric threads
- Manufacture of fur garments and skins

Round point with slightly rounded tip "RRT"



Product:

The round point with slightly rounded tip is less sensitive to burrs than the normal round point "R", therefore longer applicable with less damage of sewing goods.

Point symbol: Seam appearance:





Threading direction

Applications:

- Light to medium woven fabrics • Fine to medium jeans
- Leather/textile combinations
- Technical textiles

Highlight:

Available in combination with GO design (needle with particularly wide eye). Especially suitable for multidirectional sewing, bartacking operations and embroidery to prevent thread breakage and material damage.

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Light ball point "SES"



Product:

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

Point symbol: Seam appearance:



Threading direction



Applications:

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

Highlight:

Particularly suitable for jersey and sportswear

Medium ball point "SUK"



Product:

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

Point symbol: Seam appearance:



Threading direction



Applications:

- Medium to coarse denim materials
- Coarse knitwear
- Manufacture of corsetry

Highlight:

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)

Heavy ball point "SKF"



Point symbol: Seam appearance:





Threading direction



Product:

Needle with heavy ball point

This extremely rounded ball shape allows coarse, wide loops to be displaced by the needle without piercing the material threads.

Applications:

- Fine elastic materials with covered elastomeric threads
- Coarse knitwear

Special ball point "SKL"



Product:

Needle with very wide, highly rounded point

This combination achieves the greatest possible displacement of material threads.

Point symbol: Seam appearance:





Threading direction

Applications:

- Medium to coarse elastic materials with covered elastomeric threads
- Very coarse knitwear

Highlight:

The best point shape for sewing highly elastic fabrics containing elastane

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Materia	Material			Needle size		Point shape			
			NM	SIZE					
Woven fabric		Light (Shirt/blouse fabric)	65-75	9-11	R				
		Medium (Suit material)	80-90	12-14	SES				
		Heavy (Coat material, upholstery fabric)	100-110	16-18	SES				
	Jeans	Light	70-90	10-14	SES				
		Medium	100-110	16-18	SUK				
		Heavy	110-140	18-22	SUK				
	Very densely w	oven 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	R				
		Heavy	200-330	25-30	R				
Knitwear		Fine	60	8	SES or SUK				
		Medium	65-75	9-11	SES				
		Coarse	75-90	11-14	SUK or SKF				
		Very coarse	75-90	11-14	SKL				
Elastic ma	terials								
		tic knitted fabrics and knitted fabrics with meric threads (Elastane, Lycra etc.)							
		Fine	65-70	9-10	SKF				
		Medium (particularly bandages)	80-90	12-14	SKL				
		Coarse	80-90	12-14	SKL				
	Non-covered e (e.g. elastic for	lastomeric threads waistbands)	65-90	9-14	SPI	To prevent the elastomeric threads being pushed out			
Composite materials					•				
	Woven fabrics/knitwear combined with an interlining (e.g. shirt manufacture: seams for cuffs, collars)		65-80	9-12	SPI				
		als combined with woven fabrics/knitwear (ympatex, Helsapor)							
		Fine	65-70	9-10	SPI				
		Medium	80-90	12-14					
		Coarse	80-90	12-14	SPI				
Laminated	d materials Textile/textile (e.g. car seat co	overs, wetsuits and diving suits)	80-110	12-18	SES				
		ard, textile/plastic,							
	very rigid cardl (e.g. car seat tr		100-140	16-22	R				
	<u> </u>		100-140	16-22		For safety and reliable locking			
			80-130	12-21		For an attractive seam			
	Coated materia	ıls (e.g. tarpaulins)							
		Medium	100-180	16-24	SPI or R				
		Heavy	200-330	25-30	R or SD1				
Films			65-90	9-14	R				
Material c	ombinations								
	Leather with te	xtile	80-100	12-16	R or GO RR	Т			
Manufacture of furs and skins			80-100	12-16	SPI				
Sewing w	70-160	10-23	GO RRT						

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

determines the right needle size.

Continuous filament

	Polyamide 6.6 (Nylon)				Polyester				
Thread type	Thread size		Needle size		Thread 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	
					24/25	125/120	110-130	18-21	
	30	100	100-140	16-22	30	100	110-120	18-19	
					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	9-12	
	90	33	65-90	9-14	90	33	60-80	8-12	
Fine	120	25	65-80	9-12	120	25	60-80	8-12	
	180	17	65-80	9-12	180	17	60-70	8-10	
					200	15	60-65	8-9	
					250	12	55-60	6-9	
					360	8	50-55	5-6	

SCHMETZ Tip:

These tables only include the most common sewing threads.

Cotton threads, sewing silk and embroidery thread have been omitted for the sake of clarity.

If you have specific questions concerning these threads, please ask your thread manufacturer.

Core spun

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

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

^{*} No = Label number

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