



NITTA

NITTA CORPORATION OF AMERICA

General Belting Catalog

U-GC-11



Belt Style	Thickness		Min. Pulley		Shaft Load @ 2% Elongation (Except as Noted)		Pulley Side COF On Steel	Structure (Pulley/Reverse)	Color (Pulley/Reverse)	Splicing Solutions
	in.	mm	in.	mm	pounds/inch	N/mm				
KCS-350S	0.04	1.1	1.2	30	39 (@1%)	6.8 (@1%)	0.3 to 0.4	coating/fabric	black/blue	A
KS-100S	0.03	0.63	0.7	18	8 (@1%)	1.4 (@1%)	0.25 to 0.3	fabric/coating	orange/green	A
KSG-250	0.03	0.85	0.8	20	17 (@1%)	3.0 (@1%)	0.2 to 0.25	fabric/coating	gray/green	A
KSG-350	0.04	1.0	1.4	35	60	10.5	0.2 to 0.25	fabric/coating	gray/green	A
SB-350S-2P	0.03	0.65	1.2	30	39 (@1%)	6.8 (@1%)	0.3 to 0.4	coating/film	black/clear	A
SG-250	0.03	0.8	0.6	15	34	6.0	0.3 to 0.4	coating/coating	black/green	A
SG-350	0.04	0.95	1.0	25	60	10.5	0.3 to 0.4	coating/coating	black/green	A
SG-500	0.04	1.1	1.4	35	86	15.0	0.3 to 0.4	coating/coating	black/green	A
SG-750	0.05	1.35	2.0	50	128	22.5	0.3 to 0.4	coating/coating	black/green	A
SG-750-2P	0.04	1.1	2.0	50	32 (Tension @1%)	5.6 (Tension @1%)	0.3 to 0.4	coating/film	green/clear	A
SG-1000	0.06	1.6	2.8	70	171	30.0	0.3 to 0.4	coating/coating	black/green	A
SGLA-350S	0.05	1.2	1.2	30	39 (@1%)	6.8 (@1%)	0.5 to 0.6	tex./coating	blue/green	A
LA-250	0.05	1.25	0.6	15	34	6.0	0.5 to 0.6	tex./tex.	blue/blue	A & E
LA-350	0.06	1.4	1.0	25	60	10.5	0.5 to 0.6	tex./tex.	blue/blue	A & E
LA-350NI2	0.05	1.35	1.0	25	60	10.5	0.5 to 0.6	pat./pat.	blue/blue	A & E
LA-500	0.06	1.55	1.4	35	86	15.0	0.5 to 0.6	tex./tex.	blue/blue	A & E
LA-750	0.09	2.2	2.0	50	128	22.5	0.5 to 0.6	tex./tex.	blue/blue	A & E
LA-1000	0.10	2.45	2.8	70	171	30.0	0.5 to 0.6	tex./tex.	blue/blue	A & E
LA-1500	0.12	2.95	3.9	100	257	45.0	0.5 to 0.6	tex./tex.	blue/blue	A & E
LA-2000	0.14	3.45	5.5	140	343	60.0	0.5 to 0.6	tex./tex.	blue/blue	A & E
TFL-3SH	0.08	2.0	1.4	35	77	13.5	0.7 to 0.8	tex./taff.	gray/green	A & E
TFL-6S	0.09	2.25	1.6	40	131	23.0	0.5 to 0.6	tex./taff.	gray/blue	A & E
TFL-6SH	0.09	2.25	1.6	40	131	23.0	0.7 to 0.8	tex./taff.	gray/green	A & E
TFL-7S	0.09	2.4	2.0	50	171	30.0	0.5 to 0.6	tex./taff.	gray/blue	A & E
TFL-10S	0.10	2.6	2.8	70	223	39.0	0.5 to 0.6	tex./taff.	gray/blue	A & E
TFL-10SH	0.10	2.6	2.8	70	223	39.0	0.7 to 0.8	tex./taff.	gray/green	A & E
TFL-15S	0.12	3.1	4.3	110	343	60.0	0.5 to 0.6	tex./taff.	gray/blue	A & E
TFL-15SH	0.12	3.1	4.3	110	343	60.0	0.7 to 0.8	tex./taff.	gray/green	A & E
TFL-18S	0.13	3.35	5.1	130	388	68.0	0.5 to 0.6	tex./taff.	gray/blue	A & E
MA-250	0.09	2.2	0.8	20	34	6.0	0.5 to 0.6	tex./tex.	blue/blue	A & E
MA-350	0.09	2.35	1.0	25	60	10.5	0.5 to 0.6	tex./tex.	blue/blue	A & E
MA-500	0.10	2.5	1.4	35	86	15.0	0.5 to 0.6	tex./tex.	blue/blue	A & E
MA-750	0.11	2.75	2.0	50	128	22.5	0.5 to 0.6	tex./tex.	blue/blue	A & E
MA-1000	0.12	3.0	2.8	70	171	30.0	0.5 to 0.6	tex./tex.	blue/blue	A & E
MA-1500	0.14	3.5	3.9	100	257	45.0	0.5 to 0.6	tex./tex.	blue/blue	A & E
MA-2000	0.16	4.0	5.5	140	343	60.0	0.5 to 0.6	tex./tex.	blue/blue	A & E
MH-3000	0.22	5.5	9.4	240	514	90.0	0.5 to 0.6	tex./tex.	black/blue	A & E
MH-4000	0.26	6.5	12.6	320	685	120.0	0.5 to 0.6	tex./tex.	black/blue	A & E

Belt Style	Thickness		Min. Pulley		Shaft Load @ 2% Elongation (Except as Noted)		Pulley Side COF On Steel	Structure (Pulley/ Reverse)	Color (Pulley/ Reverse)	Splicing Solutions
	in.	mm	in.	mm	pounds/inch	N/mm				
HA-750	0.15	3.75	2.6	65	128	22.5	0.5 to 0.6	tex./tex.	blue/blue	A & E
HA-1000	0.16	4.0	3.3	85	171	30.0	0.5 to 0.6	tex./tex.	blue/blue	A & E
HA-1500	0.18	4.5	4.7	120	257	45.0	0.5 to 0.6	tex./tex.	blue/blue	A & E
HA-2000	0.20	5.0	5.9	150	343	60.0	0.5 to 0.6	tex./tex.	blue/blue	A & E
XH-500-3	0.12	3.0	1.2	30	43 (@1%)	7.5 (@1%)	0.7 to 0.8	tex./tex.	blue/blue	A & E
XH-500-4	0.16	4.0	1.4	35	43 (@1%)	7.5 (@1%)	0.7 to 0.8	tex./tex.	blue/blue	A & E
XH-500-5	0.20	5.0	2.2	55	43 (@1%)	7.5 (@1%)	0.7 to 0.8	tex./tex.	blue/blue	A & E
XH-500-6	0.24	6.0	2.4	60	43 (@1%)	7.5 (@1%)	0.7 to 0.8	tex./tex.	blue/blue	A & E
XH-750-3	0.12	3.0	2.4	60	64 (@1%)	11.25 (@1%)	0.7 to 0.8	tex./tex.	blue/blue	A & E
XH-750-4	0.16	4.0	2.8	70	64 (@1%)	11.25 (@1%)	0.7 to 0.8	tex./tex.	blue/blue	A & E
XH-750-6	0.24	6.0	3.2	80	64 (@1%)	11.25 (@1%)	0.7 to 0.8	tex./tex.	blue/blue	A & E
XH-1000-4	0.16	4.0	3.0	75	86 (@1%)	15.0 (@1%)	0.7 to 0.8	tex./tex.	blue/blue	A & E
FLA-500-3A	0.12	3.0	2.0	50	43 (@1%)	7.5 (@1%)	0.5 to 0.6	tex./synth. lthr.	blue/gray	A, E & NLG

Legend

COF – coefficient of friction**NBR** – acrylo-nitrile-butadiene**PA** – polyamide**pat.** – orange peel pattern**RT** – rough top**synth. lthr.** – synthetic leather**taff.** – very fine textile pattern**tex.** – textile pattern**TPU** – polyurethane, thermoplastic

For PolyBelt™ Only

Temperature Range:**Continuous**

-20 to +60°C

-4 to +140°F

Intermittent

-30 to +100°C

-22 to +212°F

Standard Coil Lengths – 345 ~ 354 Feet ± 10%**Standard Widths** – 12.5 Inches ± 0.5 Inches**Shaft Load @ 2% ÷ 4 = Tension @ 1%**

PolySprint™ Elastic

Belt Style	Thickness		Min. Pulley – Finger Splice		Tension @ 5% Elongation ¹		Pulley Side Coeff. of Friction On Steel	Top Cover Coeff. of Friction On Paper	Top Cover Color	Top Cover Material	Structure Top/Pulley Side	Temp. Range Continuous (Degrees F)	Antistatic Behavior	Special Properties	Applications	Max. Width (in.)
	in.	mm	in.	mm	pounds/inch	N/mm										
DBTW-0514	0.06	1.4	1.0	25	3	0.5	0.2 to 0.3	0.7 to 0.8	blue	TPU	mini RT/fine	-4 to 122	yes	mini rough top	light conveying	7.87
STC-10	0.05	1.35	1.0	25	3	0.5	0.3 to 0.4	0.2 to 0.3	blue	Textile	knitted/matte	-4 to 140	yes	knitted surface	mail sorter (stacker)	12.5
TA	0.05	1.2	1.0	25	4	0.7	0.3 to 0.4	0.7 to 0.8	blue	TPU	fine/tex.	-4 to 140	yes	elastic / simple endless	mail sorter	12.5
TA-S6G4	0.05	1.3	1.0	25	3	0.6	0.3 to 0.4	0.9 to 1.0	blue	NBR	tex./taff.	-4 to 140	yes	elastic	postal / presorter	5.9
TC	0.06	1.4	1.6	40	5	0.8	0.3 to 0.4	0.6 to 0.7	green	TPU	fine/tex.	-4 to 140	yes	elastic / simple endless	mail sorter	12.5

¹ after 200 hrs. running-in

PolySprint™ Polyester Fabric

Belt Style	Thickness		Min. Pulley – Finger Splice		Tension @ 1% Elongation ¹		Pulley Side Coeff. of Friction On Steel	Top Cover Coeff. of Friction On Paper	Top Cover Color	Top Cover Material	Structure Top/Pulley Side	Temp. Range Continuous (Degrees F)	Antistatic Behavior	Special Properties	Applications	Max. Width (in.)
	in.	mm	in.	mm	pounds/inch	N/mm										
DB-4E14	0.06	1.4	1.0	25	23	4.0	0.3 to 0.4	0.7 to 0.8	blue	TPU	fine/fine	-4 to 140	yes	semi-elastic	mail sorter	12.5
FZ-5E12	0.05	1.25	1.4	35	29	5.0	0.5 to 0.6	0.6 to 0.7	green	NBR	coating/tex.	-4 to 140	yes	medium strength	book binding, printing	12.5
GLTE-4E18	0.07	1.8	1.6	40	23	4.0	0.1 to 0.2	0.8 to 0.9	blue	NBR	tex./fabric	-4 to 140	yes	semi-elastic	printing, wrapping	12.5
LA-4E14	0.06	1.4	1.0	25	23	4.0	0.5 to 0.6	0.8 to 0.9	blue	NBR	tex./tex.	-4 to 140	yes	semi-elastic	printing, wrapping	12.5
LA-15E20	0.08	2.0	1.6	40	86	15.0	0.5 to 0.6	0.5 to 0.6 ³	blue	NBR	tex./tex.	-4 to 140	yes	medium duty	textile, roller conveyor	12.5
NTA-4E14	0.06	1.4	1.6	40	23	4.0	0.1 to 0.2	0.2 to 0.3	gray	Knit	knit/fabric	-4 to 140	yes	soft knit does not mark paper	fine (coated) paper sheeter	12.5
SLA-8E14	0.06	1.4	1.0	25	46	8.0	0.5 to 0.6	0.8 to 0.9	blue	NBR	taffeta/taffeta	-4 to 140	yes	medium duty	high friction transport	12.5
TTE-4E18	0.07	1.8	1.6	40	23	4.0	0.1 to 0.2	0.2 to 0.3	white	PA fabric	fabric/fabric	-4 to 140	yes	semi-elastic, clear resin inside	gravure rotary press	12.5
TTE-8E18	0.07	1.8	1.6	40	46	8.0	0.1 to 0.2	0.2 to 0.3	white	PA fabric	fabric/fabric	-4 to 140	yes	higher elasticity, white resin inside	gravure rotary press	12.5
TTF-4E10	0.04	1.0	0.6	15	23	4.0	0.1 to 0.2	0.2 to 0.3	white	PA fabric	fabric/fabric	-4 to 140	yes	semi-elastic	book binding, printing	12.5
TTZ-4E10	0.04	1.0	1.2	30	23	4.0	0.6 to 0.7 ²	0.6 to 0.7	green	NBR	coating/coating	-4 to 140	yes	excellent for combination folders	book binding, printing	13.38
XH-8E30	0.12	3.0	1.6	40	46	8.0	0.7 to 0.8	0.8 to 0.9	blue	NBR	tex./tex.	-4 to 140	yes	excellent for folding belt	folder gluer	12.5
XH-8E40	0.16	4.0	2.0	50	46	8.0	0.7 to 0.8	0.8 to 0.9	blue	NBR	tex./tex.	-4 to 140	yes	excellent for folding belt	folder gluer	12.5
XH-8E55	0.22	5.5	2.8	70	46	8.0	0.7 to 0.8	0.8 to 0.9	blue	NBR	tex./tex.	-4 to 140	yes	excellent for folding belt	folder gluer	12.5

¹ after 200 hrs. running-in

² on paper

³ on steel

Carryflex™ (Aramid Cord Flat Belt)

Belt Style	Thickness		Min. Pulley – Finger Splice		Tension @ 0.5% Elongation		Pulley Side Coeff. of Friction On Steel	Top Cover Coeff. of Friction On Steel	Top Cover Color	Top Cover Material	Structure Top/Pulley Side	Temp. Range Continuous (Degrees F)	Antistatic Behavior	Special Properties	Applications	Max. Width (in.)
	in.	mm	in.	mm	pounds/inch	N/mm										
CFTG-18G	0.09/0.30 ¹	2.4/7.5 ¹	3.5	90	103	18.0	0.5 to 0.6	0.5 to 0.6	blue	TPU	flat/v-guide	14 to 140	yes	extruded 1 piece v-guide	overhead conveyor, printing	Consult Factory for Available Widths ²
CFTG-27F	0.09	2.4	2.2	55	154	27.0	0.5 to 0.6	0.5 to 0.6	blue	NBR	tex./tex.	14 to 140	yes	low electrical energy consumption	tangential drive for textile	
CFTG-40F	0.12	3.0	3.9	100	228	40.0	0.5 to 0.6	0.5 to 0.6	blue	NBR	tex./tex.	14 to 140	yes	low electrical energy consumption	tangential drive for textile	
CFTG-60F	0.15	3.9	5.9	150	343	60.0	0.5 to 0.6	0.5 to 0.6	blue	NBR	tex./tex.	14 to 140	yes	low electrical energy consumption	tangential drive for textile	

¹ [Thickness of flat portion of belt] / [Total thickness of belt including v-guide]





² Standard widths specified for Carryflex:
CFTG-27F – 25mm, 30mm, 35mm, 40mm
CFTG-40F – 30mm, 35mm, 40mm, 50mm
CFTG-60F – 35mm, 45mm
CFTG-18G – 40mm, 50mm, 60mm, 80mm

Endless Tools for PolySprint™






	Item and Type	Appearance	Features	Max. Width (mm)	Max. Thick. (mm)	Size (mm)			Wt. (kg)	Finger Length x Pitch	Power	Temp. (°C)
						Width	Length	Height				
Finger Puncher	FP30-10-50N Finger Puncher		Single action punching system	50	2.0	135	400	390	3.4	30 x 10	N/A	N/A
	FP30-10-100 Finger Puncher		Single action punching system	100	2.0	200	500	504	7.0	30 x 10	N/A	N/A
	FP70-10-50* Finger Puncher		Precise indexing system	50	6.0	180	600	250	9.0	70 x 10	N/A	N/A
	FP120-10-50 Finger Puncher									120 x 10		
	FP70-10-100 Finger Puncher		Precise indexing system	100	6.0	230	610	250	10.4	70 x 10	N/A	N/A
	FP120-10-100 Finger Puncher									120 x 10		
Heat Press	NPS-3050 H1 Heat Press		Heat press with digital temperature readout	50	2.0	84	250	100	1.5	30 x 10	100V	~200
	NPS-3050 H2 Heat Press										200V	
	NPS-0310 H1 Heat Press		Heat press with digital temperature readout	100	2.0	107	365	107	4.1	30 x 10	100V	~210
	NPS-0310 H2 Heat Press										200V	
	PCF-157D-1 Heat Press		Heat press with digital temperature readout	50	6.0	165	325	122	3.2	70 x 10 120 x 10	100V	~200
	PCF-157D-2 Heat Press										200V	
	NPS-1210-1 Heat Press		Automated heating and cooling press	100	6.0	230	320	180	9.5	70 x 10 120 x 10	100V	~200
	NPS-1210-2 Heat Press										200V	
Cooling Press	NPS-3050C Cooling Press		Cooling press for finger joints – no power required	50	2.0	80	224	92	0.6	30 x 10	N/A	N/A
	NPS-0310C Cooling Press		Cooling press for finger joints – no power required	100	2.0	85	311	102	2.4	30 x 10	N/A	N/A
	PCF-157C Cooling Press		Cooling press for finger joints – no power required	50	6.0	165	325	122	2.4	70 x 10 120 x 10	N/A	N/A
Other Tools	Presetter		Guide rails to hold joint straight when pressing	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	50mm Width PS Toolkit Complete 30mm Finger Joining Kit		FP30-10-50N, NPS-3050H, NPS-3050C, Presetter, Clamps and Case	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	100mm Width PS Toolkit Complete 30mm Finger Joining Kit		FP30-10-100, NPS-0310H, NPS-0310C, and Presetter	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*Also available as **FP-35-05-50**, for punching **35mm length X 5mm pitch** fingers in belts up to **2mm thick** and up to **50mm wide**

Endless Tools for PolyBelt™

Item and Type	Appearance	Features	Max. Width (mm)	Max. Thick. (mm)	Size (mm)			Wt. (kg)	Finger Length x Pitch	Power	Temp. (°C)	
					Width	Length	Height					
S-300R PolyBelt Skiver		Lightweight portable skiver, designed to skive all Nitta PolyBelt	300	7.0	533	660	355	20.9	N/A	120V	N/A	PolyBelt Skiver
PP-103 PolyBelt Press		Highly reliable and widely accepted	100	5.0	140	295	150	3.1	N/A	100V or 200V	110	
PP-1535 PolyBelt Press		Single electric controller, heating both sides of plates	320	6.0	230	612	210	28.0	N/A	100V	110	
PP-1717 PolyBelt Press		Programmable temp. controller, accommodates very thick belts	120	8.0	253	295	144	11.0	N/A	100V or 200V	140	

Endless Tools for Carryflex™

Item and Type	Appearance	Features	Max. Width (mm)	Max. Thick. (mm)	Size (mm)			Wt. (kg)	Finger Length x Pitch	Power	Temp. (°C)	
					Width	Length	Height					
FP-120-10-80G Finger Puncher		Designed with slot to fit CFTG-18G v-guide when punching	80	8	230	610	260	10.8	120 x 10	N/A	N/A	Finger Puncher
FP-200 Finger Puncher		For use with all Carryflex belts other than CFTG-18G	50	6	215	380	350	21.0	200 x 10	N/A	N/A	
PCF-2210 Heat Press		Automated heating and cooling press for joining Carryflex	80	8	250	280	180	9.0	120 x 10 200 x 10	110V or 220V	~200	Heat Press
CFTG-18G Presetter Not for other Carryflex belts		Guide rails to hold joint straight when pressing, slot for v-guide	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Other Tools
Carryflex Presetter For Carryflex belts other than -18G		Guide rails to hold joint straight when pressing	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Additional tools and accessories, not shown here, may also be available. Please consult factory for available tools and accessories, and for pricing.

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