



Nylon Cord PIA-C-5040/Mil-C-5040

Technical Data Sheet

Miltex

Part Numbers

Type IA, 5040

Color: Red
Spool: 500ft
NSN: 4020-00-531-2813

Color: Natural
Spool: 700yd
NSN: 4020-00-292-9920

Color: Camo
Spool: 500yd
NSN: 4020-01-241-5128

Type II, 5040

Color: Natural
Spool: 700yd
NSN: 4020-00-555-8639

Color: Camo
Spool: 400yd
NSN: 4020-00-262-2019

Type IIA, 5040

Color: Camo
Spool: 500yd

Color: Natural
Spool: 700yd

Type III, 5040

Color: Red
Spool: 400yd
NSN: 4020-00-262-2147

Color: Natural
Spool: 700yd
NSN: 4020-00-240-2146

Color: Camo
Spool: 400yd
NSN: 4020-00-246-0688

Type IV, 5040

Color: Natural
Spool: 400yd
NSN: 4020-283-4783

Color: Camo
Spool: 400yd
NSN: 4020-00-071-3531

General Information

The 5040 nylon cord is used in numerous commercial and military applications; however, its primary use is for military parachute systems for the U.S. government and foreign customers. There are several types of cord available including Type IA, II, IIA, III and IV and depending on customer needs and/or requirements, these types are available in several spool sizes, breaking strengths, and colors. Colors include: red, natural, camo, foliage green, tan, black, orange, and olive drab. Fluorocarbon treatment is available upon request.

Nylon Cord 5040 Characteristics

Physical Differences

Type	Breaking Strength (lbs), minimum	Elongation (percent), minimum	Length per pound of cord (ft)
I	95lb	30	950ft
IA	100lb	30	1050ft
II	400lb	30	260ft
IIA	225lb	30	495ft
III	550lb	30	225ft
IV	750lb	30	165ft

Construction Differences

Dash Number	Type	Type	Yarns (denier/ply)	Twist (turns/in) spin	Ply	Number of core ends	Picks per inch	Number of carriers and ends per carrier
-1	I	Core	210/3	7.0 to 9.5	5 to 7	4 to 7	~	~
		Sleeve	70/3	20 to 24.0	15 to 19	~	26 to 28	32/1 or 16/2
-2	IA	Core	~	~	~	~	~	~
		Sleeve	210/3	7.0 to 9.5	5 to 7	~	26 to 28	16/1
-3	II	Core	210/1 st 5 or 1050 (singles) Final -3	1	1st 10 to 16 Final 6 to 8	4 to 7	~	~
		Sleeve	210/3	7.0 to 9.5	5 to 7	~	26 to 28	32/1 or 36/1
-4	IIA	Core	~	~	~	~	~	~
		Sleeve	210/3	7.0 to 9.5	5 to 7	~	26 to 28	32/1 to 36/1
-5	III	Core	210/1 st 5 or 1050 (singles) Final -3	1	1st 10 to 16 Final 6 to 8	7 to 9	~	~
		Sleeve	210/3	7.0 to 9.5	5 to 7	~	26 to 28	32/1 to 36/1
-6	IV	Core	210/1 st 5 or 1050 (singles) Final -3	1	1st 10 to 16 Final 6 to 8	11	~	~
		Sleeve	210/3	7.0 to 9.5	5 to 7	~	26 to 28	32/1, 36/1, or 44/1

Source: PIA-C-5040 specification-www.pia.com