

An essential guide to nylon, flourocarbon and braided main lines.



WHAT LINE IS BEST FOR YOU?

WHAT BRAID IS BEST FOR YOU?

WHAT WILL YOUR LINE ACTUALLY BREAK AT?

As so many lines are labelled the same but behave very differently, we suggest buying line by diameter rather than by the breaking strain on the label.

For weed and snag free situations...

We recommend lines of between 0.33mm and 0.35mm. These will usually break between 16lb and 18lb.

For waters with snags and heavy weed...

Thicker lines of between 0.35mm and 0.40mm will have better abrasion resistance and be stronger, usually breaking between 20lb and 22lb.

For distance casting...

Lower diameter lines of 0.25mm to 0.30mm generally enable longer casts and will usually break between 10lb and 15lb.

One last thing...

Remember, diameter and breaking strain do not give the complete picture. Cost, suppleness, abrasion resistance and value for money should also be considered.



Braid can be an essential part of any angler's tackle, but there are a few things to consider when choosing which one to buy...



FLOATING BRAID

Ideal for marker float use, spodding / spombing or drifting and lure fishing for pike.

SINKING BRAID

Ideal for pinning down main line when a much less detectable approach is required.

Braid, the pros...

Most braids are exceptionally thin, making them superior casting lines, and have virtually no stretch, which improves bite indication, makes them more sensitive for feature finding and ideal for spodding / spombing. Braids generally deteriorate a lot more slowly than nylon or fluorocarbon, so the need to re-spool is less and it is also less troublesome with line twist.

Braid, the cons...

Care must be taken when spooling new braid. It is important not to overfill your reels otherwise wind knots will occur, and it is best loaded on to your spools wet and under tension. The lack of stretch in braid can result in fish losses due to hook pulls or hook link breakages, so extra care needs to be taken when playing fish, and this zero stretch can also result in a broken rod if the braid gets wrapped around rings during casting or general handling.

Almost every line commonly used for carp fishing has an underrated breaking strain indicated on the spool or box. With a good knot, most lines will always break at a higher strain.

With no international guidelines for indicating breaking strain or diameter, most manufacturers underrate lines to different degrees. A line labelled 12lb by one company may consistently break around 20lb, whereas a line labelled 12lb by a different company may regularly break at just 14lb. To give a better idea of the specifications of the main lines that we sell we have tested breaking strains and diameters ourselves.

How we measure the breaking strain

We took line from different points on the spool and measured breaking strains five times using our own custom and precision made line tester, and diameters using a high quality digital calliper. Breakage tests were conducted with five turn grinner knots and a knotless knot to mimic what the average angler uses. Braid diameters shown below are as accurate as possible, but unlike nylon lines, some braids do not have round profiles. Each spool of line was tested brand new, but we accept that the performance of most lines varies with age, and that different batches of lines supplied to shops may show slight differences in performance. However we hope the chart will provide useful general guidance.



LINE TESTS

MAKE OF LINE

NYLON MAIN LINES

For the purpose of our line tests we use a Five Turn Grinner Knot. Our experience and manufacturers suggestions however, sometimes suggest that a Palomar Knot or Tucked Blood Knot can often give higher breaking strain results.

MAKE OF LINE	Stated Strain	Average Strain	Stated Diameter	Measured Diameter
Berkley Big Game Green	10lb 12lb 15lb	13.88lb 15.75lb 20.75lb	0.31mm 0.36mm 0.38mm	0.30mm 0.34mm 0.38mm
Daiwa Sensor Brown	4lb 6lb 8lb 10lb 12lb 15lb 18lb 20lb 25lb 30lb	5.88lb 8.5lb 10.75lb 14.63lb 16.5lb 17.63lb 21.63lb 25lb 31lb 32.13lb	0.205mm 0.235mm 0.26mm 0.31mm 0.33mm 0.37mm 0.405mm 0.435mm 0.520mm	0.20mm 0.22mm 0.25mm 0.30mm 0.32mm 0.36mm 0.40mm 0.43mm 0.51mm
Daiwa Sensor Clear	8lb 10lb 12lb 15lb 18lb	10.12lb 15.87lb 16.75lb 21.37lb 24.25lb	0.26mm 0.31mm 0.33mm 0.37mm 0.405mm	0.25mm 0.30mm 0.32mm 0.35mm 0.40mm
E-S-P Syncro XT	10lb 12lb 15lb 18lb	14lb 15.75lb 21.75lb 21.63lb	0.30mm 0.33mm 0.37mm 0.40mm	0.29mm 0.31mm 0.35mm 0.39mm
E-S-P Syncro Loaded XT	10lb 12lb 15lb 18lb	12.84lb 14.64lb 18.34lb 21.99lb	0.30mm 0.33mm 0.37mm 0.40mm	0.31mm 0.33mm 0.37mm 0.40mm
Fox Soft Steel Dark Camo	13lb 16lb 18lb	13.31lb 14.39lb 15.49lb	0.309mm 0.331mm 0.350mm	0.30mm 0.32mm 0.34mm
Fox Soft Steel Light Camo	13lb 16lb 18lb	13.49lb 13.54lb 14.44lb	0.309mm 0.331mm 0.350mm	0.30mm 0.32mm 0.34mm
E•S•P Crystal Carp Mono	10lb 12lb 15lb 18lb	11.13lb 13.38lb 15lb 17.63lb	0.30mm 0.325mm 0.35mm 0.375mm	0.31mm 0.32mm 0.36mm 0.375mm
E•S•P Olive Carp Mono	10lb 12lb 15lb 18lb	11lb 12.63lb 14.13lb 16.5lb	0.30mm 0.325mm 0.35mm 0.375mm	0.28mm 0.30mm 0.32mm 0.35mm
Fox Exocet Green	13lb 16lb 18lb	14.67lb 14.22lb 16.36lb	0.309mm 0.331mm 0.35mm	0.29mm 0.32mm 0.33mm
Fox Soft Steel Camo	10lb 12lb 15lb	13.5lb 13.63lb 15lb	0.286mm 0.309mm 0.331mm	0.28mm 0.31mm 0.33mm
Gardner GR60	12lb 15lb	18.75lb 24lb	0.35mm 0.40mm	0.35mm 0.40mm
Gardner GR60 Green	12lb 15lb	15.76lb 17.84lb	0.35mm 0.40mm	0.34mm 0.39mm
Gardner GR60 Clear Gardner Hydro Tuff	12lb 15lb 12lb	17.76lb 20.36lb 18.44lb	0.35mm 0.40mm 0.35mm	0.34mm 0.39mm 0.34mm
Gardner Pro	15lb 12lb	19.80lb	0.38mm 0.30mm	0.34mm 0.37mm
Light Blend Gardner Pro	15lb 12lb	15.49lb 14.29lb	0.35mm 0.30mm	0.34mm 0.30mm
	15lb	15.49lb	0.35mm	0.34mm

MAKE OF LINE	Stated Strain	Average Strain	Stated Diameter	Measured Diameter
Gold Label Pro Clear	10lb 12lb 16lb 20lb	12.13lb 14.5lb 19.75lb 24.75lb	0.26mm 0.29mm 0.34mm 0.40mm	0.26mm 0.29mm 0.34mm 0.38mm
Gold Label Pro Gold	8lb 10lb 12lb 15lb	11.38lb 11.88lb 17.5lb 22lb	0.28mm 0.305mm 0.355mm 0.38mm	0.27mm 0.29mm 0.35mm 0.38mm
Gold Label Pro Distance	10lb 12lb 15lb	15.13lb 18.75lb 17.63lb	0.30mm 0.35mm 0.38mm	0.29mm 0.34mm 0.38mm
Gold Label Pro Tough	27lb 36lb	30.08lb 23.49lb	0.47mm 0.51mm	0.48mm 0.51mm
Korda Adrena-Line	10lb 12lb 15lb 18lb	11.75lb 13.25lb 15.63lb 17.63lb	0.30mm 0.33mm 0.35mm 0.38mm	0.30mm 0.33mm 0.36mm 0.39mm
Korda Kruiser Control	6lb 8lb 10lb 12lb	9.38lb 11.75lb 11.25lb 16.25lb	0.25mm 0.28mm 0.30mm 0.33mm	0.24mm 0.28mm 0.29mm 0.33mm
Korda Subline Brown	10lb 12lb 15lb 20lb	13.5lb 17.13lb 19.25lb 22lb	0.30mm 0.35mm 0.40mm 0.43mm	0.30mm 0.36mm 0.40mm 0.43mm
Korda Subline Green	10lb 12lb 15lb 20lb	12.88lb 17.88lb 18.88lb 22.38lb	0.30mm 0.35mm 0.40mm 0.43mm	0.29mm 0.35mm 0.39mm 0.42mm
Korda Touchdown Sub Brown	10lb 12lb 15lb	12.81lb 17.13lb 19.97lb	0.30mm 0.35mm 0.40mm	0.29mm 0.34mm 0.40mm
Korda Touchdown Sub Green	10lb 12lb 15lb	15.17lb 16.96lb 22.83lb	0.30mm 0.35mm 0.40mm	0.30mm 0.35mm 0.40mm
Krystonite	8lb 10lb 12lb 15lb 18lb	8.62lb 13.62lb 13.75lb 16.12lb 22.5lb	0.25mm 0.29mm 0.31mm 0.36mm 0.41mm	0.24mm 0.28mm 0.30mm 0.35mm 0.40mm

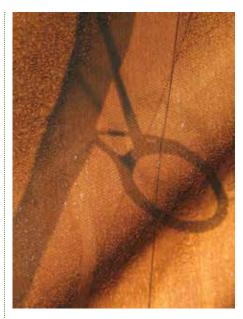
MAKE OF LINE	Stated	Average	Stated	Measured
	Strain	Strain	Diameter	Diameter
Nash Hardcore Brown	10lb 12lb 15lb	9.05lb 9.65lb 13.54lb	0.28mm 0.30mm 0.35mm	0.27mm 0.29mm 0.34mm
Nash NXT D-Cam Mono	12lb	18.38lb	0.35mm	0.34mm
	15lb	21.25lb	0.38mm	0.39mm
	18lb	24.88lb	0.43mm	0.43mm
Nash Zig Flo	8lb	7.8lb	0.23mm	0.22mm
	10lb	11.25lb	0.28mm	0.27mm
	12lb	10.61lb	0.30mm	0.29mm
Prologic XLNT Camo HP	12lb 14lb 16lb	13.18lb 14.27lb 15.38lb	0.28mm 0.30mm 0.33mm	0.28mm 0.30mm 0.34mm
Shimano Catana	8lb	14.13lb	0.28mm	0.28mm
	10lb	16lb	0.30mm	0.30mm
	12lb	18.88lb	0.33mm	0.33mm
	15lb	20.5lb	0.35mm	0.35mm
Shimano Tribal Carp	10lb	13.41lb	0.305mm	0.26mm
	12lb	15.72lb	0.33mm	0.32mm
	15lb	19.52lb	0.38mm	0.39mm
TF Gear Nan-Tec	12lb	12lb	0.30mm	0.27mm
Mono Red Mist	15lb	16.62lb	0.35mm	0.34mm
Ultima Power Carp Clear	10lb 12lb 14lb 16lb 18lb	14.38lb 17.50lb 19.63lb 22lb 27.25lb	0.28mm 0.31mm 0.33mm 0.36mm 0.38mm	0.29mm 0.31mm 0.34mm 0.38mm 0.42mm
Ultima Power Carp Green	12lb 14lb 16lb	17.50lb 19.63lb 22lb	0.31mm 0.33mm 0.36mm	0.31mm 0.34mm 0.38mm
Ultima Power Carp Ultra	12lb 14lb 16lb 18lb	14.38lb 9lb 10.88lb 13.63lb	0.31mm 0.33mm 0.36mm 0.38mm	0.31mm 0.33mm 0.38mm ???????
Ultima Power Carp XR	12lb 14lb 16lb	11.73lb 15.53lb 16.35lb	0.31mm 0.33mm 0.36mm	0.30mm 0.36mm 0.37mm
Ultima Zero	10lb	10.78lb	0.28mm	0.29mm
	12lb	12.80lb	0.30mm	0.31mm
	14lb	14.41lb	0.32mm	0.32mm
	16lb	12.42lb	0.35mm	0.36mm



FLUOROCARBON MAIN LINES

Fluorocarbons are usually very abrasion resistant, virtually invisible in water and have fast sinking qualities.

MAKE OF LINE	Stated	Average	Stated	Measured
	Strain	Strain	Diameter	Diameter
Berkley Super	12lb	13lb	0.33mm	0.33mm
Strong 100%	15lb	14.5lb	0.381mm	0.365mm
Fluorocarbon	17lb	14.88lb	Unstated	0.38mm
Daiwa Floorit Brown	10lb	9.26lb	0.27mm	0.26mm
	12lb	10.55lb	0.31mm	0.28mm
	14lb	14.13lb	0.33mm	0.34mm
	17lb	16.08lb	0.37mm	0.38mm
Daiwa Floorit Clear	12lb	11.09lb	0.31mm	0.28mm
	14lb	13.14lb	0.33mm	0.34mm
	17lb	16.08lb	0.37mm	0.38mm
Fox Illusion®	16lb	13.01lb	0.30mm	0.34mm
	19lb	16.26lb	0.35mm	0.38mm
Gardner Mirage	12lb	11.75lb	0.33mm	0.33mm
	14lb	12.88lb	0.35mm	0.35mm
	16lb	13.38lb	0.37mm	0.36mm
Korda Kontour	12lb	11.5lb	0.33mm	0.31mm
Taska Deceptive	16lb	10.66lb	0.33mm	0.34mm
	20lb	14.95lb	0.37mm	0.38mm
TF Gear Secret Trap	17lb	13.38lb	0.35mm	0.35mm
Ultima Pure Power	12lb	9.38lb	0.30mm	0.30mm
Fluorocarbon	14lb	10.75lb	0.32mm	0.32mm
Clear	16lb	11.5lb	0.35mm	0.35mm
Ultima Pure Power	12lb	8.25lb	0.30mm	0.30mm
Fluorocarbon	14lb	10.5lb	0.32mm	0.32mm
Green	16lb	13lb	0.35mm	0.35mm
X Line	12lb	9.38lb	0.26mm	0.28mm
	15lb	10.25lb	0.31mm	0.29mm
	17lb	11.13lb	0.33mm	0.31mm
	20lb	12.63lb	0.37mm	0.35mm
X2 Secure	15lb	13.82lb	0.30mm	0.31mm
	20lb	15.14lb	0.35mm	0.34mm



BRAIDED MAIN LINES

Braid can be an essential part of any angler's tackle. Ideal for main line, feature finding and spodding.



MAKE OF LINE	Stated Strain	Average Strain	Stated Diameter	Measured Diameter
Avid Carp Depth Charge Marker Braid	40lb	17.63lb	0.10mm	0.26mm
Berkley Fireline Braid	14lb 20lb 30lb	21.38lb 26.38lb 38.13lb	0.23mm 0.30mm 0.36mm	0.28mm 0.34mm 0.43mm
Berkley Fireline Tournament Exceed	14lb 20lb 30lb	21lb 24.88lb 38.13lb	0.23mm 0.30mm 0.36mm	0.26mm 0.33mm 0.43mm
Berkley Nanofil	12.64kg (28lb)	12lb	0.20mm	0.23mm
Berkley Whiplash Braid	20lb 30lb 50lb	15.88lb 17.63lb 29.31lb	0.06mm 0.10mm 0.17mm	0.20mm 0.26mm 0.31mm
Daiwa Tournament 8 Braid	50lb	26lb	0.26mm	0.26mm
Dynon SK Braid	22lb 34lb	19.88lb 27.25lb	Unstated Unstated	0.30mm 0.39mm
E•S•P Spod & Marker Braid	20lb	18.88lb	0.28mm	0.28mm
Fox Exocet Distance Spod & Marker Braid	23lb	13.5lb	0.18mm	0.24mm
Fox Exocet MK2 Marker Braid	20lb	10.23lb	0.18mm	0.24mm
Fox Exocet MK2 Spod Braid	20lb	15.32mm	0.18mm	0.24mm
Fox Submerge®	25lb 40lb	19.10lb 25.58lb	0.16mm 0.20mm	0.31mm 0.33mm

MAKE OF LINE	Stated	Average	Stated	Measured
	Strain	Strain	Diameter	Diameter
Fox Gravitron Pro	15lb	13.88lb	0.30mm	0.31mm
	20lb	18.13lb	0.35mm	0.37mm
	25lb	21.37lb	0.40mm	0.38mm
Gardner Kinetic	15lb	20.4lb	0.23mm	0.30mm
Nash Bullet Braid	15lb	19.5lb	0.30mm	0.32mm
	20lb	20.63lb	0.35mm	0.34mm
	25lb	22.63lb	0.40mm	0.34mm
Nash NXT Bullet Braid	15lb	18.13lb	0.23mm	0.30mm
	20lb	23.63lb	0.30mm	0.35mm
	25lb	26.63lb	0.34mm	0.38mm
Spiderwire Ultracast	20lb	19lb	0.25mm	0.27mm
Fluoro Braid	30lb	23.63lb	0.30mm	0.31mm
TF Gear Banana Braid	30lb	24lb	0.28mm	0.24mm
Korda Apex	30lb	24.5lb	0.23mm	0.33mm
	50lb	33.30lb	0.36mm	0.38mm
Korda Marker Braid	20lb	13.39lb	0.16mm	0.24mm
Korda Spod Braid	20lb	13.93lb	0.16mm	0.23mm
Ultima Vertibraid	20lb	20lb	Unstated	0.25mm
	30lb	27.75lb	Unstated	0.34mm
X2 Durabraid	31.5lb (14.3kg) 37lb	21lb	0.20mm	0.24mm
	(16.8kg) 42lb	24lb	0.25mm	0.32mm
	(19.3kg) 42.5lb (19.3kg)	27lb 27lb	0.30mm 0.30mm	0.35mm 0.35mm