

Line Characteristics

- Used for measuring well depths and lowering various electrical and measuring instruments into the well
- Solid well measuring lines (wire) available in both IPS and EIP grades
- Well servicing lines (strand) available in round 1x16 and die drawn 1x19 designs



Solid Well Measuring Lines

DIAMETER (inches)	APROX. WEIGHT (lbs. per 1,000 ft.)	STRETCH DUE TO PAYLOAD (1)	DIAMETER TOLERANCE (inches)	NOMINAL STRENGTH (lbs.)		RELATIVE SHEAVE DIAMETER (2)		TORSIONS IN 8" TWISTS (3)	
				IPS	EIP	IPS	EIP	IPS	EIP
.066	11.6	.01327	+/- .001	811	960	11	9	32 min	28 min
.072	13.8	.01115	+/- .001	961	1,150	12	10	29 min	26 min
.082	17.9	.00860	+/- .001	1,239	1,460	14	12	26 min	23 min
.092	22.6	.00682	+/- .001	1,547	1,830	16	13	23 min	21 min
.105	29.4	.00524	-.001/+ .0015	1,966	2,360	19	16	20 min	18 min
.108	31.1	.00495	-.001/+ .0015	2,109	2,490	19	16	19 min	18 min
.125	41.7	.00369	-.001/+ .0015	2,823	3,300	22	19	17 min	15 min

(1) To find the approximate stretch due to payload, multiply the column value by the wireline length in the hole (ft.) by the payload weight (lbs.) and divide by 100. Stretch due to wireline weight for any size is approximately 1.5 inches per 1,000 feet of wireline. Changes in temperature will alter wireline length by a factor of 0.000078 inches per foot per degree (F) change. (2) Small sheaves will reduce wireline life due to increased bending stresses. The relative sheave diameters shown are intended as optimum values for good wireline bending life. Always use the largest sheaves possible. (3) Minimum torsions listed for .125" API-IPS and all API-EIP diameters are per WWW practice. API does not indicate torsion requirements for these products. In addition, API does not indicate minimum elongation for the API-EIP product.

Well Servicing Lines

DIAMETER (inches)	1x16 BRIGHT		1x19 BRIGHT DIE DRAWN	
	APROX. WEIGHT (lbs. per 1,000 ft.)	NOMINAL STRENGTH (lbs.)	APROX. WEIGHT (lbs. per 1,000 ft.)	NOMINAL STRENGTH (lbs.)
3/16	77	4,200	85	5,360
1/4	135	7,300	--	--



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