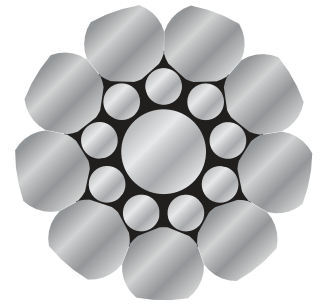


# Swabline

## WELL SERVICE LINES

PRODUCED PER API 9A SPECIFICATIONS

### COMPACTED CABLE SPECIFICATIONS CONSTRUCTION 1X19 C SEALE



Nominal Diameter	3/16"	7/32"	1/4"	5/16"	3/8"	7/16"
Construction	1x19 (9/9/1)	1x19 (9/9/1)	1x19 (9/9/1)	1x19 (9/9/1)	1x19 (9/9/1)	1x19 (9/9/1)

#### TECHNICAL CHARACTERISTICS

Inner Lay Direction	Right	Right	Right	Right	Right	Right
Outer Lay Direction	Right Compacted	Right Compacted	Right Compacted	Right Compacted	Right Compacted	Right Compacted
Final Diameter	0.188" - 0 + 2%	0.219" - 0 + 2%	0.250" - 0 + 2%	0.312" - 0 + 2%	0.375" - 0 + 2%	0.437" - 0 + 2%
Diameter Before Compacted	0.209"	0.243"	0.275"	0.342"	0.408"	0.469"
Lay Length	1.982"	2.310"	2.614"	3.247"	3.878"	4.340"
Central Wire Diameter	0.060" Drawn Galv. IPS	0.068" Drawn Galv. IPS	0.078" Drawn Galv. IPS	0.096" Drawn Galv. IPS	0.116" Drawn Galv. IPS	0.132" Drawn Galv. IPS
Internal Wires Diameter	0.029" Drawn Galv. IPS	0.034" Drawn Galv. IPS	0.038" Drawn Galv. IPS	0.048" Drawn Galv. IPS	0.056" Drawn Galv. IPS	0.065" Drawn Galv. IPS
External Wires Diameter	0.051" Drawn Galv. IPS	0.060" Drawn Galv. IPS	0.068" Drawn Galv. IPS	0.084" Drawn Galv. IPS	0.101" Drawn Galv. IPS	0.116" Drawn Galv. IPS

#### MECHANICAL CHARACTERISTICS

Breaking Strength (Klbs)	6.40	8.60	11.40	16.20	23.50	31.80
Max Suggested Working Tension (Klbs)	3.80	4.30	6.70	8.10	11.75	15.90
Weight (Kg/Mt)	0.141	0.193	0.247	0.380	0.543	0.718
Weight (Lb/Ft)	0.095	0.130	0.166	0.255	0.365	0.482
Stretch Coefficient ft/kft/klb	2.17	1.28	0.87	0.43	0.22	0.19