## Schlumberger

# LineSlot

### Premium direct-wire-wrapped screens

#### **APPLICATIONS**

- Openhole and cased-hole completions
- Vertical, deviated, and horizontal completions of oil, gas, and injector wells
- Stand-alone completions
- Gravel-pack and frac-pack completions
- Completions that use Alternate Path<sup>†</sup> gravel-pack shunt tube technologies
- Long and extreme-reservoir-contact wells
- Wells with severe downhole conditions
- Installations with inflow or injection control devices
- Sandface sensor installations
- High-rate-gas environments

#### **BENEFITS**

- Reduced rig time through use of standard casing-handling equipment
- Increased completion longevity because of erosion and corrosion resistance

#### **FEATURES**

- Robust design that mimizes risk of screen damage during installation and helps ensure that screen will reach bottom in extended-reach wells
- Consistent, accurate slot openings and unique wrapping-wire profile
- No requirement for welding on basepipe (screen wire is shrink-fitted to basepipe)
- Suitability for short-radius with sand control maintained
- Curved wrapping-wire surface that reduces friction and increases wear resistance
- Installation with conventional casing equipment
- Optional external protective shroud

LineSlot\* premium direct-wire-wrapped screens are made of a wire jacket shrink-wrapped directly to the basepipe. Screen components are welded to each other, enabling the screen and basepipe to act as a single unit and ensuring that the tension, compression, and torque ratings of the screen are the same as those of the basepipe. The curved, wrapped wire surface made of heavy-duty materials reduces friction and increases resistance to erosion and corrosion. Basepipe perforations are designed to optimize flow without affecting the screen's strength. The consistent, accurate slot openings enhance sand control.

Direct-wire-wrapped sand screens are robust yet lightweight. They are suitable for high mechanical loads, short-radius wellbores, and applications that require a strong but lightweight screen with a tight slot-opening tolerance. Because of the special clearance geometry, flush end rings, and slim wire design, they are also suitable for completions that require an optimized ID/OD ratio, such as sandface sensor installations. LineSlot screens are constructed with 4-mm × 3-mm axial wire and wrapping wire with wire materials ranging from 316L to 825. They can be manufactured with different axial- and wrapping-wire configurations according to well configuration and reservoir needs.

#### LineSlot LT screen wire construction

LineSlot LT\* direct-wire-wrapped screens are constructed using the same design as LineSlot screens and with 4-mm × 3-mm axial wire, but these screens are constructed with 90A wire. They can be manufactured with different axial and wrapping-wire configurations.

#### LineSlot HRG screen for high-rate-gas wells

LineSlot HRG\* high-rate-gas direct-wire-wrapped screens are configured specifically for wells with high-rate-gas flow conditions. They can be used with or instead of current completion methods. Whereas conventional screens are affected by the high inflow velocity of the gas and hot-spotting, LineSlot HRG screens feature specially engineered perforations and rib wires that force inflow at the heel to be distributed more uniformly over a longer length of screen compared with that of conventional screens. This reduces radial velocity below the critical level and eliminates erosion hot spots without the need to choke production, extending the life of the well and protecting topside equipment from formation sand.

#### **Quality control**

LineSlot screen slots are created with precisely controlled processes that result in high-precision apertures. Schlumberger ResGauge\* slot-opening measurement system is a photometric QC device that measures every slot opening on a screen joint (±2,500 data points per joint) with a resolution of 1 um and an accuracy of 5 um.



LineSlot premium directwire-wrapped screen

# LineSlot

LineSlot and LineSlot HRG Screen Specifications														
Basepipe Size, in	Basepipe Weight, Ibm/ft	Basepipe ID, in	Additional Assembly Weight,† Ibm/ft	Max. OD, in		Perforation Holes/ft <sup>‡</sup>	Tensile Rating,‡ lbf		Torque Rating,§ lbf.ft	Collapse Rating, <sup>‡</sup> psi		Burst Rating, <sup>‡</sup> psi		Bending Limit, <sup>‡</sup> °/100 ft
				LineSlot	LineSlot HRG		LineSlot	LineSlot HRG		LineSlot	LineSlot HRG	LineSlot	LineSlot HRG	
3.500	9.2	2.992	NA <sup>††</sup>	4.32	4.50	24	200,800	203,100	6,900	10,500	10,500	3,200	3,100	53.3
4.000	9.5	3.548	5.2	4.82	5.00	28	207,200	210,800	7,400	6,500	6,500	2,800	2,700	46.7
4.000	11.0	3.476	5.2	4.82	5.00	28	237,800	242,000	8,600	8,800	8,800	2,800	2,700	46.7
4.500	11.6	4.000	5.5	5.32	5.50	28	259,100	263,000	9,900	6,300	6,300	2,500	2,400	41.5
4.500	12.6	3.958	5.5	5.32	5.50	28	279,500	283,700	11,000	7,500	7,500	2,500	2,400	41.5
5.000	15.0	4.408	6.0	5.82	6.00	28	340,600	345,200	8,700	7,200	7,200	2,300	2,200	37.3
5.000	18.0	4.276	6.0	5.82	6.00	28	410,500	416,200	12,600	9,400	8,800	2,300	2,200	37.3
5.500	17.0	4.892	6.6	6.30	6.50	32	387,400	392,200	10,800	6,200	6,200	2,000	2,100	33.9
5.500	20.0	4.778	6.6	6.30	6.50	32	454,800	460,500	14,000	8,800	8,800	2,000	2,100	33.9
6.625	20.0	6.049	7.8	7.44	7.62	36	449,600	454,100	13,800	3,400	3,400	1,800	1,700	28.2
6.625	24.0	5.921	7.8	7.44	7.62	36	543,800	549,400	20,600	5,700	5,700	1,800	1,700	28.2
6.625	28.0	5.791	7.8	7.44	7.62	36	637,400	644,000	26,000	8,100	8,100	1,800	1,700	28.2
7.000	23.0	6.366	8.2	7.82	8.00	36	522,400	527,400	18,600	3,800	3,800	1,700	1,700	26.7

LineSlot LT Screen Specifications										
Basepipe Size, in	Basepipe Weight, lbm/ft	Basepipe ID, in	Additional Assembly Weight, <sup>†</sup> Ibm/ft	Max. OD, in	Perforation Holes/ft <sup>‡</sup>	Tensile Rating, <sup>‡</sup> Ibf	Torque Rating, <sup>§</sup> lbf.ft	Collapse Rating, <sup>‡</sup> psi	Burst Rating, <sup>‡</sup> psi	Bending Limit,‡ °/100 ft
2.375	4.6	1.995	2.5	3.07	24	99,500	3,000	9,700	3,300	78.6
2.875	6.4	2.441	3.0	3.57	24	139,400	5,000	6,900	2,800	64.9
3.500	9.2	2.992	3.3	4.19	24	200,800	6,900	4,800	2,400	53.3
4.000	9.5	3.548	3.6	4.70	28	207,200	7,400	5,100	2,100	46.7
4.000	11.0	3.476	3.6	4.70	28	237,800	8,600	5,100	2,100	46.7
4.500	11.6	4.000	4.0	5.20	28	259,100	9,900	4,100	1,900	41.5
4.500	12.6	3.958	4.0	5.20	28	279,500	9,900	4,100	1,900	41.5
5.000	15.0	4.408	4.2	5.70	28	340,600	8,700	3,400	1,700	37.3
5.000	18.0	4.276	4.2	5.70	28	410,500	12,600	3,400	1,700	37.3
5.500	17.0	4.892	4.6	6.20	32	387,400	10,800	3,700	1,600	33.9
5.500	20.0	4.778	4.6	6.20	32	454,800	14,000	3,700	1,600	33.9
6.625	20.0	6.049	5.5	7.33	36	449,600	13,800	3,200	1,300	28.2
6.625	24.0	5.921	5.5	7.33	36	543,800	20,600	3,200	1,300	28.2
6.625	28.0	5.791	5.5	7.33	36	637,400	26,000	3,200	1,300	28.2
7.000	23.0	6.366	5.6	7.68	36	524,400	18,600	3,600	1,200	26.7

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<sup>&</sup>lt;sup>†</sup>Data based on 34-ft filter length <sup>‡</sup>Data based on 12-gauge screen openings, 316L wire, 80,000-psi basepipe, and SLHT coupling <sup>§</sup>Torque value based on 80,000-psi SLHT coupling <sup>†</sup>Not applicable

<sup>&</sup>lt;sup>†</sup>Data based on 34-ft filter length <sup>‡</sup>Data based on 12-gauge screen openings, 316L wire, 80,000-psi basepipe, and SLHT coupling <sup>§</sup>Torque value based on 80,000-psi SLHT coupling