

WeldSlot

Slip-on 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[†] gravel-pack shunt tube technologies
- Installations with inflow or injection control devices
- Sandface sensor installations
- Thermal applications, including heavy-oil and steam-assisted wells

BENEFITS

- Minimized risk of screen damage during installation due to screen design and robustness
- Longer well life and optimized production
- Versatile completion geometries that enhance production

FEATURES

- Proven, reliable, and robust construction
- Minimized chance of downhole failure, ensured through rigorous quality assurance
- Large inlet area that promotes flow
- Slip rings that isolate jacket from mechanical loads on basepipe
- Customization options
 - Slip-ring design that can be incorporated to accommodate thermal effects
 - Optional perforated or louvered shroud for extra protection
 - Optional fiber-optic cable
 - Multiple options for wire width and height in jacket and rib construction
 - Fin-type or spiral centralizers

WeldSlot* slip-on wire-wrapped screens are made of a wire-wrapped outer jacket manufactured separately from the basepipe. The jacket is fitted over the perforated basepipe and welded to the pipe at each end to provide structural support for high mechanical loads. The screens are designed to provide more open area to increase flow and productivity. They are resistant to erosion and corrosion and feature a geometry that cannot be easily plugged by fines or produced solids.

Protective slip-ring design

A slip-ring design isolates the wire-wrapped jacket from mechanical loads (compression, tension, and torque) applied to the screen assembly.

Louvered shroud

A protective shroud can be perforated or louvered and is designed to accommodate a fiber-optic cable, such as the WellWatcher BriteBlue* multimode DTS fiber.

Quality control

Quality control standards ensure the highest quality, maximum screen strength, and erosion resistance. Custom engineered screen fabricating machines ensure precise tolerances.

Customization options

WeldSlot screens can be fully customized to meet any well application. Schlumberger's extensive manufacturing capabilities enable quick responses to custom orders anywhere in the world.



WeldSlot slip-on wire-wrapped screen.

WeldSlot Screen Specifications

Basepipe Size, in	Basepipe Weight, lbm/ft	Additional Assembly Weight, [†] lbm/ft	Min. Basepipe ID, in	Max. Screen OD, in	Number of Perforation Holes per ft	Max. Tensile Rating, [‡] lbf	Max. Torque Rating, ^{‡,§} lbf.ft	Max. Collapse Rating, [‡] psi	Max. Burst Rating, [‡] psi
2.375	4.6	1.8	2.00	3.04	40	67,900	2,800	3,500	3,900
2.875	6.4	2.2	2.44	3.54	50	93,600	4,800	3,000	3,300
3.500	9.2	5.4	2.99	4.16	50	135,000	8,500	2,500	2,700
4.000	9.5	6.3	3.55	4.66	40	148,500	12,400	2,200	2,400
4.000	11.0	6.3	3.48	4.66	40	170,100	11,000	2,200	2,400
4.500	11.6	7.1	4.00	5.18	40	189,100	15,800	2,000	2,100
4.500	12.6	7.1	3.99	5.18	40	203,800	17,200	2,000	2,100
5.000	15.0	8.7	4.41	5.68	50	242,200	22,400	1,800	1,900
5.000	18.0	8.7	4.28	5.68	50	291,200	26,200	1,800	1,900
5.500	17.0	9.7	4.89	6.19	50	280,100	26,600	1,600	1,700
5.500	20.0	9.7	4.78	6.19	50	328,300	34,100	1,600	1,700
6.625	20.0	11.8	6.05	7.32	60	324,600	41,000	1,400	1,400
6.625	24.0	11.8	5.92	7.32	60	392,000	48,600	1,400	1,400
6.625	28.0	11.8	5.79	7.32	60	458,000	55,894	1,400	1,400
7.000	23.0	12.4	6.37	7.70	70	369,700	49,200	1,300	1,300

[†] Data based on 34-ft filter length.

[‡] Data based on 12 GA 316L, 80,000-psi basepipe, R3, SLHT.

[§] Torque value based on perforated basepipe.

Note: ISO certifications are available on request.