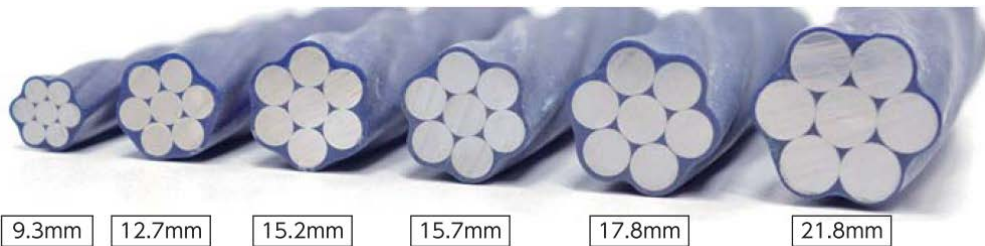


# Filled Epoxy-coated Seven-Wire Steel Prestressing Strand



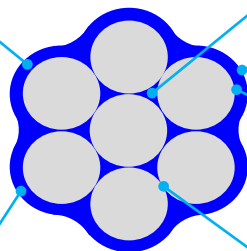
Filled epoxy-coated seven-wire steel prestressing strand outperforms all other corrosion protection systems, including galvanized strand, in accelerated corrosion tests. The corrosion protection system can be used in external tendon applications inside box girders without additional grout pipes and grouting, providing lifetime inspection capabilities to the entire strand free length. When used in internal tendon applications exposed to marine water conditions or deicing salts, such as piling, road deck panels and girders, epoxy coated and filled strand is unmatched as the most cost-effective, corrosion-resistant reinforcing steel.

## Features

- Excellent corrosion resistance
- High fatigue performance
- Bonded or unbonded

Holiday-free coating  
(100% inline inspection)

Coating thickness @ crown of wire:  
380 μm ~ 1,140μm



All internal voids completely filled with epoxy

Embedded grit option (FLOBOND) provides exceptional bond with concrete or grouting


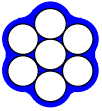

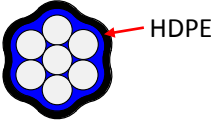

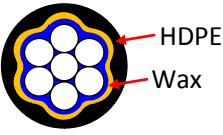

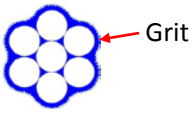

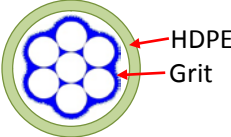
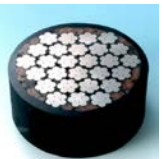
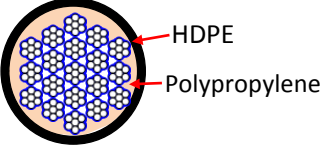
Strong adhesion between the epoxy and steel surface

Exceptional fatigue & fretting resistance because mutual wire movement is prevented

## Specifications (ASTM A882/A882M, ISO14655, JSCE-E141)

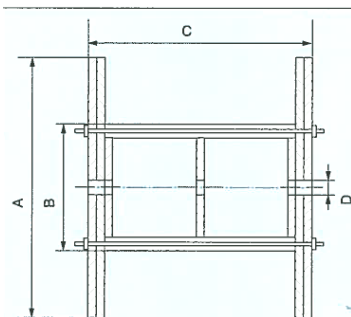
Diameter of Steel Strand [mm]		9.3	12.7	15.2	15.7	17.8	21.8
Grade [Mpa]		1720	1860	1860	1860	2230	2000
Steel Area [mm <sup>2</sup> ]		51.61	98.71	138.7	150.0	150.0	285.9
Minimum Breaking Strength [kN]		88.8	183	261	279	335	573
Relaxation after 1,000 hours [%]	Low-relaxation	-	2.5	2.5	2.5	-	-
	Normal-relaxation	6.5	6.5	6.5	6.5	6.5	6.5
Weight of Steel Strand [kg/1,000m]		405	774	1101	1172	1180	2244

# Lineup

	Appearance and Cross Section		Main application
FLOGARD			<ul style="list-style-type: none"> <li>External post-tensioning</li> <li>Stay Cable</li> </ul>
HDPE sheathed FLOGARD			<ul style="list-style-type: none"> <li>External post-tensioning</li> <li>Stay Cable</li> </ul>
Wax and HDPE Sheathed FLOGARD			<ul style="list-style-type: none"> <li>External post-tensioning</li> <li>Stay Cable</li> </ul>
FLOBOND (Fine or Coarse Grit)			<ul style="list-style-type: none"> <li>Inner post-tensioning</li> <li>Pre-tensioning</li> <li>Ground anchor</li> <li>Cable bolt</li> </ul>
HDPE sheathed FLOBOND			<ul style="list-style-type: none"> <li>Ground anchor</li> </ul>
Pre-fabricated Multi Cable			<ul style="list-style-type: none"> <li>External post-tensioning</li> <li>Stay Cable</li> </ul>

## Packing

Diameter [mm]	Strand weight [kg]	Outer diameter A [mm]	Width B [mm]
12.7	2800	1600	1050
15.2			
15.7			



Wooden spools for ECF strand

### Sales Department

#### Special Steel Wire Division

ADDRESS: 1-1-1, Koya-Kita, Itami, Hyogo 664-0016 Japan

TEL: +81-72-771-0966

FAX: +81-72-771-0502

E-MAIL: [pc-int@info.sei.co.jp](mailto:pc-int@info.sei.co.jp)

URL: <http://www.sei-ssw.co.jp/>

