MEPNN Supplier Scouting Opportunity Synopsis

Section 1: General Information

Scouting Number	2024-353
Item to be Scouted	Full Locked Coil (FLC) Rope
Days to be scouted	21
Response Due By	12/03/2024
Description	Galfan Coated (95% Zn/ 5%Al) Fully Locked Carbon Steel Cables
Notify Requester Immediately	
State item to be used in	California

Section 2: Technical Information

Type of supplier being sought	Manufacturer
Reason	BABA
Describe the manufacturing processes (elaborate to provide as much detail as possible)	In Fully Locked Coil (FLC) cables outer layers of interlocking Z shaped wires are helically spun around an OSS core, avoiding external agents getting into the inner side of the cable. This creates superior corrosion resistance for marine environments like the Port of Los Angeles. The combination of the closed design construction of a FLC cable, with Galfan (95% Zn / 5% Al) coated outer Z shaped wires and an internal zinc rich paste blocking compound that result in a finished cable that has several stages of corrosion resistance. The Z shaped exterior wires are not currently made by any supplier in the US and therefore make this desirable type of cable nondomestic.
Provide dimensions / size / tolerances / performance specifications for the item	Equivalent to Redaelli FLC cables: https://www.teufelberger.com/en/full-locked-coil-rope-flc.html
List required materials needed to make the product, including materials of product components	Galfan (95% Zn / 5% Al) coated outer Z-shaped wires
Are there applicable certification requirements?	Yes
Details	ASTM A475, ASTM A586 and ASTM A603
Are there applicable regulations?	Yes
Details	Must be compliant with PTI DC45.1-18: Recommendations for Stay Cable Design, Testing, and Installation
Are there any other stndards, requirements, etc.?	No
NAICS 1	237310 Highway, Street, and Bridge Construction
NAICS 2	331222 Steel wire drawing
Additional Technical Comments	From our outreach/research the quality of domestic product available does not provide equivalent corrosion protection and durability. Many European suppliers make the Z-shaped wire to produce FLC cables which are more durable than OSS. Domestic suppliers only make round wires and cannot produce FLC cables to our knowledge.

Section 4: Business Information

Estimated potential business volume	One time purchase of 13 cables (Approximately 500 Linear Feet (LF) total)
Estimated target price / unit cost information (if unavailable explain)	Approximately $400,000.

When is it needed by?	March 2026.
Describe packaging requirements	Individually rolled and protected for shipping to site.
Where will this item be shipped?	Los Angeles, California.

Additional Comments

Is there other information you would like to include?	From previous outreach domestic cable manufacturers did not believe the manufacture of FLC is economically viable. This component has had to be supplied from Europe in similar past projects. For all BABA related questions please contact: Agency: Port of Los Angeles (Federal Highway Administration/ California Division Office) Name/POC: Noe Preciado Email address: npreciado@portla.org or Ei Mon Kyaw Sr. Transportation Engineer – District 7, 8 Ei_Mon.Kyaw@dot.gov

PFEIFER
Seilbau Cable Structures

Vollverschlossenes Seil – GALFAN
Full Locked Cable – GALFAN

CE 1771 ETA
ETA-11/0160

PV

VVS-1  VVS-2  VVS-3 

Datenblätter *Data Sheets*

Technische Daten / ***Technical Data***

Material: unlegierter Qualitätsstahl
Material: unalloyed quality steel

Elastizitätsmodul: 160 ± 10 kN/mm²
Modulus of Elasticity: 160 ± 10 kN/mm²

Toleranz d_S: + 3 %
Tolerance d_S: + 3 %

Korrosionsschutz: innere Lagen: feuerverzinkt mit Innenverfüllung äußere Lagen: GALFAN verzinkt ohne Innenverfüllung
Corrosion Protection: inner layers: hot dip galvanized with inner filling outer layers: GALFAN coated without inner filling

Größe *size*	Charakt. Bruchkraft *charact. breaking load* $Z_{B,k}$ DIN 18800* kN	Grenzzugkraft *limit tension* $Z_{R,d}$ DIN 18800 kN	Metall. Querschnitt *metallic cross section* ca./*approx.* mm²	Gewicht *weight* ca./*approx.* kg/m	Konstruktion *construction* **	Seil-Nenndurchmesser *nomin. strand dia.* d_S mm
PV 40	405	245	281	2,4	VVS-1	21
PV 60	621	376	430	3,6	VVS-1	26
PV 90	916	555	634	5,3	VVS-2	31
PV 115	1170	709	808	6,8	VVS-2	35
PV 150	1520	921	1060	8,9	VVS-2	40
PV 195	1930	1170	1340	11,2	VVS-2	45
PV 240	2380	1442	1650	13,8	VVS-2	50
PV 300	3020	1830	2090	17,2	VVS-3	55
PV 360	3590	2176	2490	20,5	VVS-3	60
PV 420	4220	2558	2920	24,1	VVS-3	65
PV 490	4890	2964	3390	27,9	VVS-3	70
PV 560	5620	3406	3890	32,1	VVS-3	75
PV 640	6390	3873	4420	36,4	VVS-3	80
PV 720	7210	4370	4990	41,1	VVS-3	85
PV 810	8090	4903	5600	46,2	VVS-3	90
PV 910	9110	5521	6310	52,0	VVS-3	95
PV 1010	10100	6121	6990	57,6	VVS-3	100
PV 1110	11100	6727	7710	63,5	VVS-3	105
PV 1220	12200	7394	8460	69,7	VVS-3	110
PV 1340	13400	8121	9240	76,2	VVS-3	115
PV 1450	14500	8788	10100	83,2	VVS-3	120
PV 1580	15800	9576	10900	89,8	VVS-3	125
PV 1730	17300	10485	11900	96,7	VVS-3	130
PV 1860	18600	11273	12900	104,8	VVS-3	135
PV 2000	20000	12121	13900	112,9	VVS-3	140

**VVS-1 = 1, VVS-2 = 2, VVS-3 = 3 und mehr Lagen Profildrähte
*nach EC 3 = $F_{u,k}$ und nach ASCE 19-96 = S_d
Unter Vorspannung und / oder Witterungseinflüssen ist der Austritt von Innenverfüllung möglich.
Konstruktionsänderungen vorbehalten
Größere Abmessungen und Zwischengrößen auf Anfrage

***VVS-1 = 1, VVS-2 = 2, VVS-3 = 3 and more layers z-profiled wires*
**according EC 3 = $F_{u,k}$ and according ASCE 19-96 = S_d*
Due to prestressing and / or differing weather conditions inner filling may escape to the surface.
Subject to technical modifications
Bigger dimensions and intermediate dimensions upon request

04/2013